

APPENDIX C

CCTV Data Logs

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH18896	MH18926	MH-18896_MH-18926	10/9/2018	Centre Street	Vitrified Clay Pipe	8	471	471

Pipe Size: 8

Total Ln.: 471

Inspected Ln.: 471

Project Total Ln.: 471.0

Project Inspected Ln.: 471.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18896_MH-18926	Lynn- Ma	Centre Street	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH18896	471		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH18926	471		8	8	
SPR 4	MPR 2	PO Number		Customer	
SPRI 4	MPRI 2			Stantec	
QSR 4100	QMR 2100	Work Order		Purpose	
				Maintenance Related	
OPR 6	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181009	10-9-18	
OPRI 3	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	09:41	Dry	
Date Cleaned			End Time	Additional Info	
20181009			10:26		



Defect Listing Plot with Images

Pipe Segment Refere... MH-18896_MH-18926	City Lynn- Ma	Street Centre Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH MH18896	Total Length 471	Year Laid	Shape Circular	Location Details	
DS Manhole MH18926	Length surveyed 471	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 4	MPR 2	PO Number		Customer Stantec	
SPRI 4	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 4100	QMR 2100				
OPR 6	Surveyed By Chris_M	Direction Upstream	Date 20181009	Media label 10-9-18	
OPRI 3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 09:41	Weather Dry	
Date Cleaned 20181009			End Time 10:26	Additional Info	

145.8 ft. Tap Factory Made Active



159.9 ft. Tap Factory Made Active



177.5 ft. Deposits Settled Fine

2



221.1 ft. Tap Factory Made Active



223.1 ft. Tap Factory Made Active



240.2 ft. Surface Aggregate Missing
Unknown

4



270.6 ft. Tap Factory Made Active



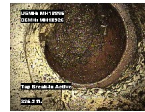
287.9 ft. Tap Factory Made Active



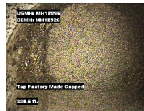
Defect Listing Plot with Images

Pipe Segment Refere... MH-18896_MH-18926	City Lynn- Ma	Street Centre Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH MH18896	Total Length 471	Year Laid	Shape Circular	Location Details	
DS Manhole MH18926	Length surveyed 471	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 4	MPR 2	PO Number		Customer Stantec	
SPRI 4	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 4100	QMR 2100				
OPR 6	Surveyed By Chris_M	Direction Upstream	Date 20181009	Media label 10-9-18	
OPRI 3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 09:41	Weather Dry	
Date Cleaned 20181009			End Time 10:26	Additional Info	

326.2 ft. Tap Break-In Active



330.6 ft. Tap Factory Made Capped



353.0 ft. Tap Factory Made Active



407.7 ft. Tap Break-In Active



420.7 ft. Tap Factory Made Active



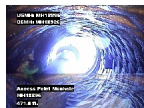
439.9 ft. Tap Break-In Active



450.5 ft. Tap Factory Made Capped



471.0 ft. Access Point Manhole



MH18896

Defect Listing Plot with Images

Pipe Segment Refere... MH-18896_MH-18926	City Lynn- Ma	Street Centre Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH MH18896	Total Length 471	Year Laid	Shape Circular	Location Details	
DS Manhole MH18926	Length surveyed 471	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 4	MPR 2	PO Number		Customer Stantec	
SPRI 4	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 4100	QMR 2100				
OPR 6	Surveyed By Chris_M	Direction Upstream	Date 20181009	Media label 10-9-18	
OPRI 3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 09:41	Weather Dry	
Date Cleaned 20181009			End Time 10:26	Additional Info	



MH18896

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18921	MH-18916	MH-18916_MH-18921	12/19/2018	Centre Street	Vitrified Clay Pipe	8	232	232

Pipe Size: 8

Total Ln.: 232

Inspected Ln.: 232

Project Total Ln.: 232.0

Project Inspected Ln.: 232.0

Defect Listing

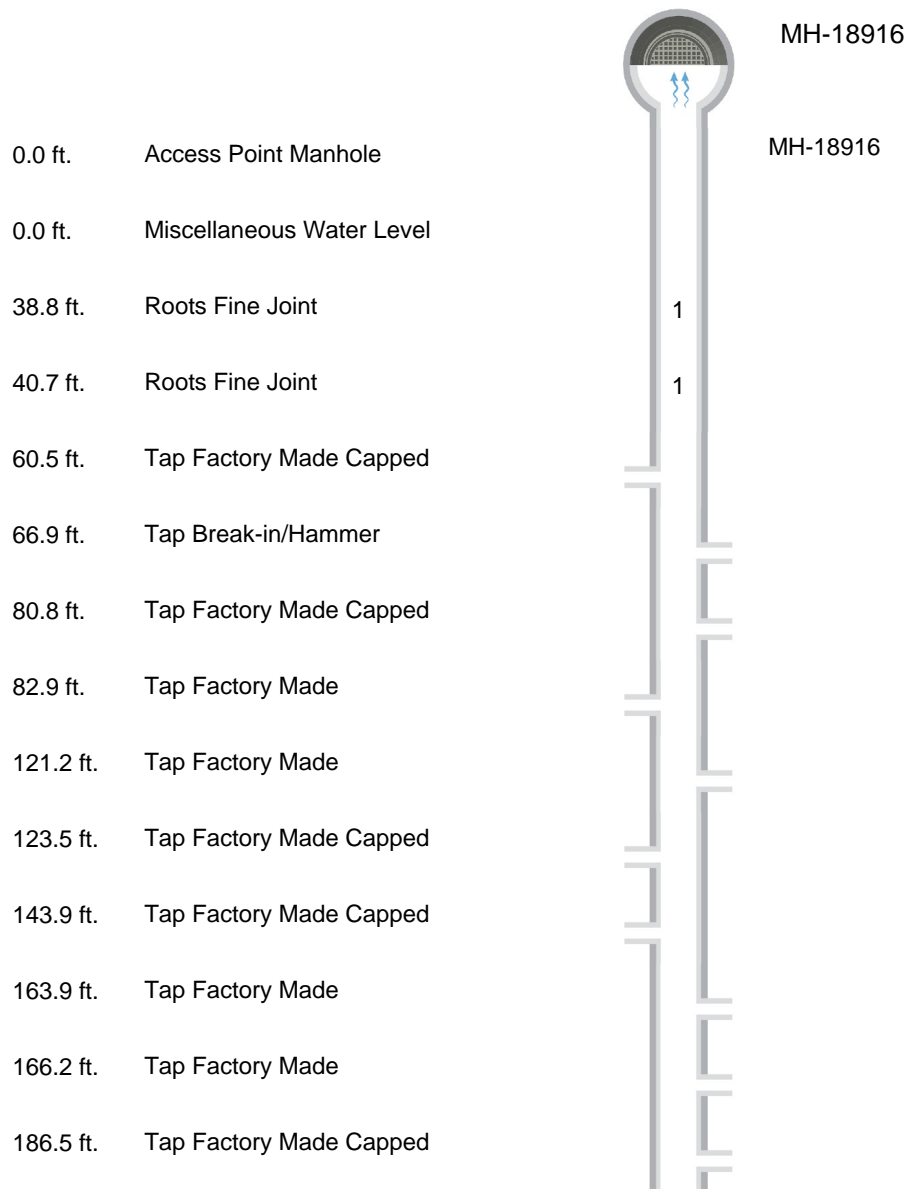
Pipe Segment Refere... MH-18916_MH-18921	City LYNN	Street Centre Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18921	Total Length 232	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18916	Length surveyed 232	Year Renewed	Height 8	Width 8	Pipe Joint... 13	

SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181219	Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 14:35	Weather	
Date Cleaned 20181219			End Time 14:50	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: MH-18916									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
38.8 ft.	Roots Fine Joint					<input checked="" type="checkbox"/>	11		1
40.7 ft.	Roots Fine Joint					<input checked="" type="checkbox"/>	11		1
60.5 ft.	Tap Factory Made Capped		6		5	<input type="checkbox"/>	3		
66.9 ft.	Tap Break-in/Hammer		6		5	<input type="checkbox"/>	11		
80.8 ft.	Tap Factory Made Capped		6		5	<input type="checkbox"/>	9		
82.9 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	3		
121.2 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	9		
123.5 ft.	Tap Factory Made Capped		6		5	<input type="checkbox"/>	3		
143.9 ft.	Tap Factory Made Capped		6		5	<input type="checkbox"/>	3		
163.9 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	9		
166.2 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	9		
186.5 ft.	Tap Factory Made Capped		6		5	<input type="checkbox"/>	10		
192.2 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	2		
232.0 ft.	Access Point Manhole				5	<input type="checkbox"/>			
Remarks: MH-18916									

Defect Listing Plot

Pipe Segment Refere... MH-18916_MH-18921	City LYNN	Street Centre Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18921	Total Length 232	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18916	Length surveyed 232	Year Renewed	Height 8	Width 8	Pipe Joint... 13
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181219	Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 14:35	Weather	
Date Cleaned 20181219			End Time 14:50	Additional Info	

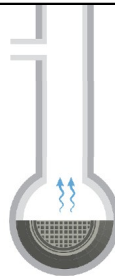


Defect Listing Plot

Pipe Segment Refere... MH-18916_MH-18921	City LYNN	Street Centre Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18921	Total Length 232	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18916	Length surveyed 232	Year Renewed	Height 8	Width 8	Pipe Joint... 13
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181219	Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 14:35	Weather	
Date Cleaned 20181219			End Time 14:50	Additional Info	

192.2 ft. Tap Factory Made

232.0 ft. Access Point Manhole



MH-18916

MH-18921



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18926	MH-18931	MH-18926_MH-18931	10/12/2018	Centre Street	Vitrified Clay Pipe	12	0	69

Pipe Size: 12

Total Ln.: 0

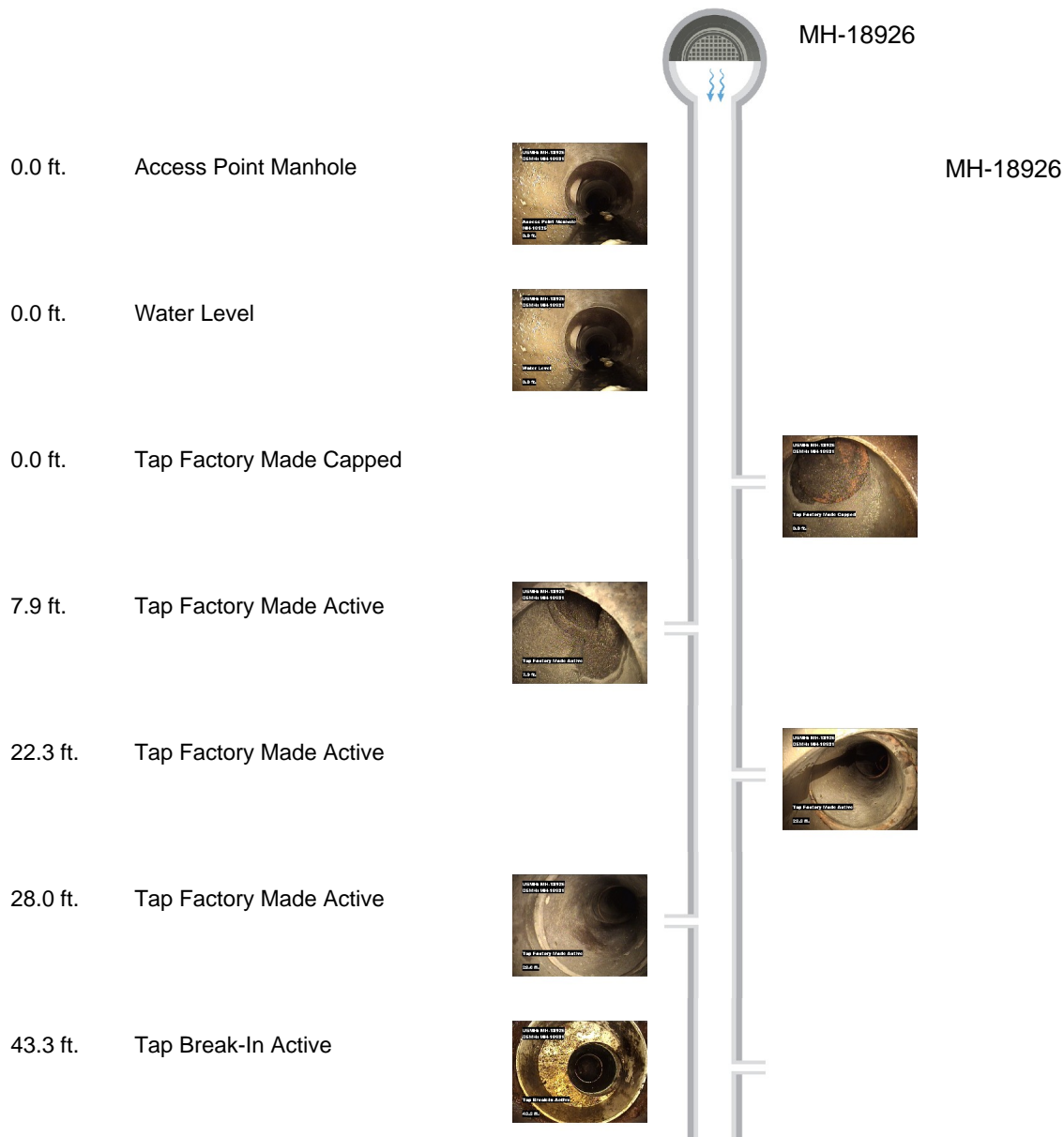
Inspected Ln.: 69

Project Total Ln.: 0.0

Project Inspected Ln.: 69.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18926_MH-18931	City Lynn- Ma	Street Centre Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18926	Total Length	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18931	Length surveyed 69	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR 2	MPR 3	PO Number		Customer Stantec	
SPRI 2	MPRI 3	Work Order		Purpose Maintenance Related	
QSR 2100	QMR 3100				
OPR 5	Surveyed By Chris_M	Direction Downstream	Date 20181012	Media label 10-12-18	
OPRI 2.5	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 10:46	Weather Light Rain	
Date Cleaned 20181012			End Time 11:00	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18926_MH-18931	City Lynn- Ma	Street Centre Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18926	Total Length	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18931	Length surveyed 69	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR 2	MPR 3	PO Number		Customer Stantec	
SPRI 2	MPRI 3	Work Order		Purpose Maintenance Related	
QSR 2100	QMR 3100				
OPR 5	Surveyed By Chris_M	Direction Downstream	Date 20181012	Media label 10-12-18	
OPRI 2.5	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 10:46	Weather Light Rain	
Date Cleaned 20181012			End Time 11:00	Additional Info	

49.2 ft. Tap Factory Made Active

64.2 ft. Crack Longitudinal

67.8 ft. Tap Factory Made Capped

68.2 ft. Obstacles Brick

69.0 ft. Survey Abandoned



Brick in invert

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18926	MH-18931	MH-18931_MH-18926_Rev	10/12/2018	Centre Street	Vitrified Clay Pipe	12	0	112

Pipe Size: 12

Total Ln.: 0

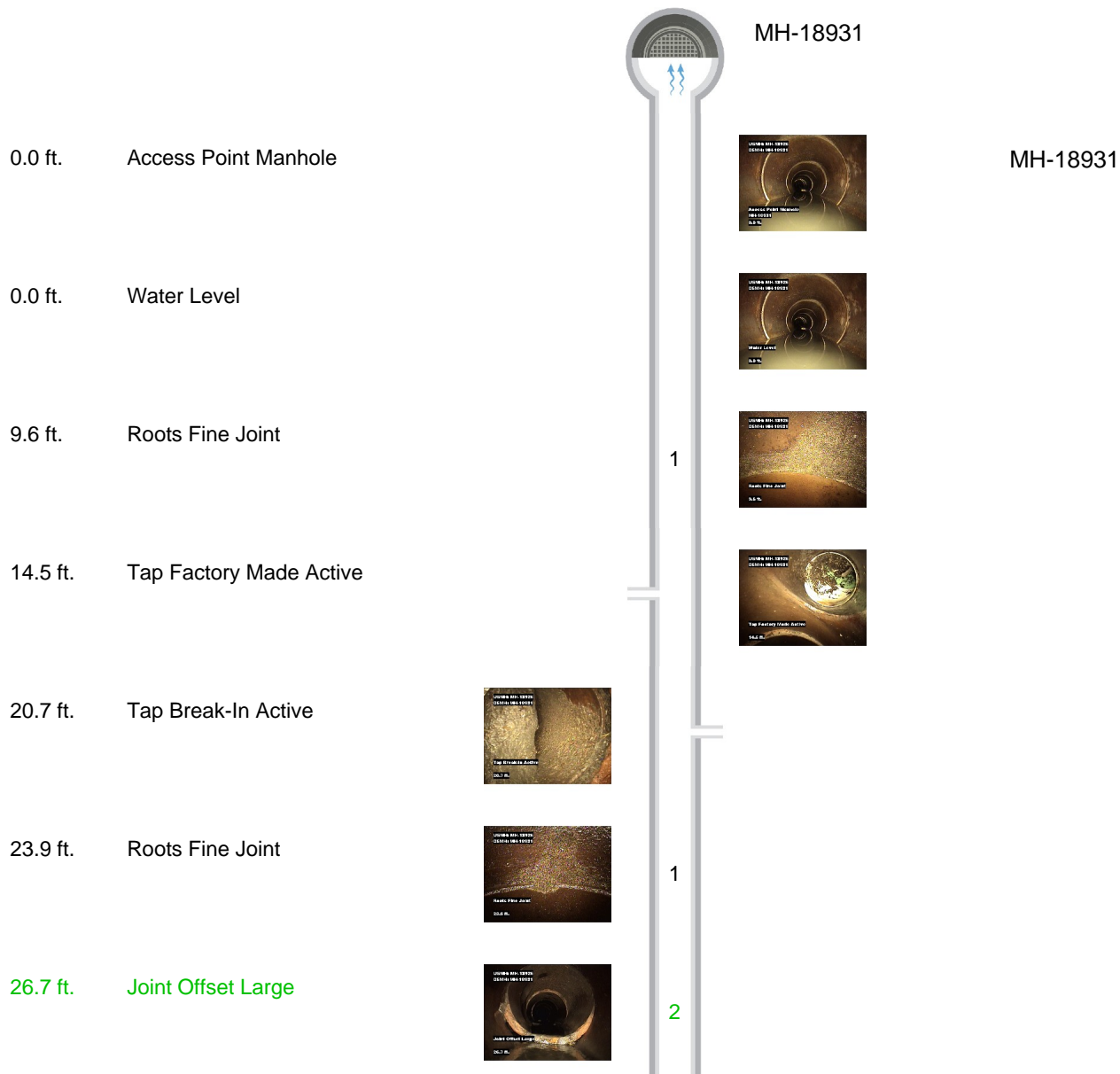
Inspected Ln.: 112

Project Total Ln.: 0.0

Project Inspected Ln.: 112.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18931_MH-18926_R...	Lynn- Ma	Centre Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18926			Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18931	112		12	12	
SPR 10	MPR 4	PO Number		Customer	
SPRI 3.3	MPRI 1.3			Stantec	
QSR 4221	QMR 2112	Work Order		Purpose	
				Maintenance Related	
OPR 14	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181012	10-12-18	
OPRI 2.3	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	12:08	Light Rain	
Date Cleaned			End Time	Additional Info	
20181012			12:25		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18931_MH-18926_R...	Lynn- Ma	Centre Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH MH-18926	Total Length	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18931	Length surveyed 112	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR 10	MPR 4	PO Number		Customer Stantec	
SPRI 3.3	MPRI 1.3	Work Order		Purpose Maintenance Related	
QSR 4221	QMR 2112				
OPR 14	Surveyed By Chris_M	Direction Upstream	Date 20181012	Media label 10-12-18	
OPRI 2.3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 12:08	Weather Light Rain	
Date Cleaned 20181012			End Time 12:25	Additional Info	

27.7 ft. Fracture Longitudinal Hinge 2



4

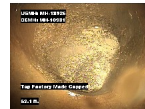
28.9 ft. Tap Factory Made Active



38.0 ft. Tap Factory Made Capped



62.1 ft. Tap Factory Made Capped



71.8 ft. Surface Aggregate Missing Unknown



4

97.0 ft. Tap Factory Made Active



111.6 ft. Tap Break-In Intruding



2

112.0 ft. Survey Abandoned



Can't Get Past Intruding Tap

Defect Listing Plot with Images

Pipe Segment Refere... MH-18931_MH-18926_R...	City Lynn- Ma	Street Centre Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18926	Total Length	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18931	Length surveyed 112	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR 10	MPR 4	PO Number		Customer Stantec	
SPRI 3.3	MPRI 1.3	Work Order		Purpose Maintenance Related	
QSR 4221	QMR 2112				
OPR 14	Surveyed By Chris_M	Direction Upstream	Date 20181012	Media label 10-12-18	
OPRI 2.3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 12:08	Weather Light Rain	
Date Cleaned 20181012			End Time 12:25	Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-26-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18931	MH-18916	MH-18931_MH-18916	10/25/2018	Centre Streeet	Vitrified Clay Pipe	12	264	264

Pipe Size: 12

Total Ln.: 264

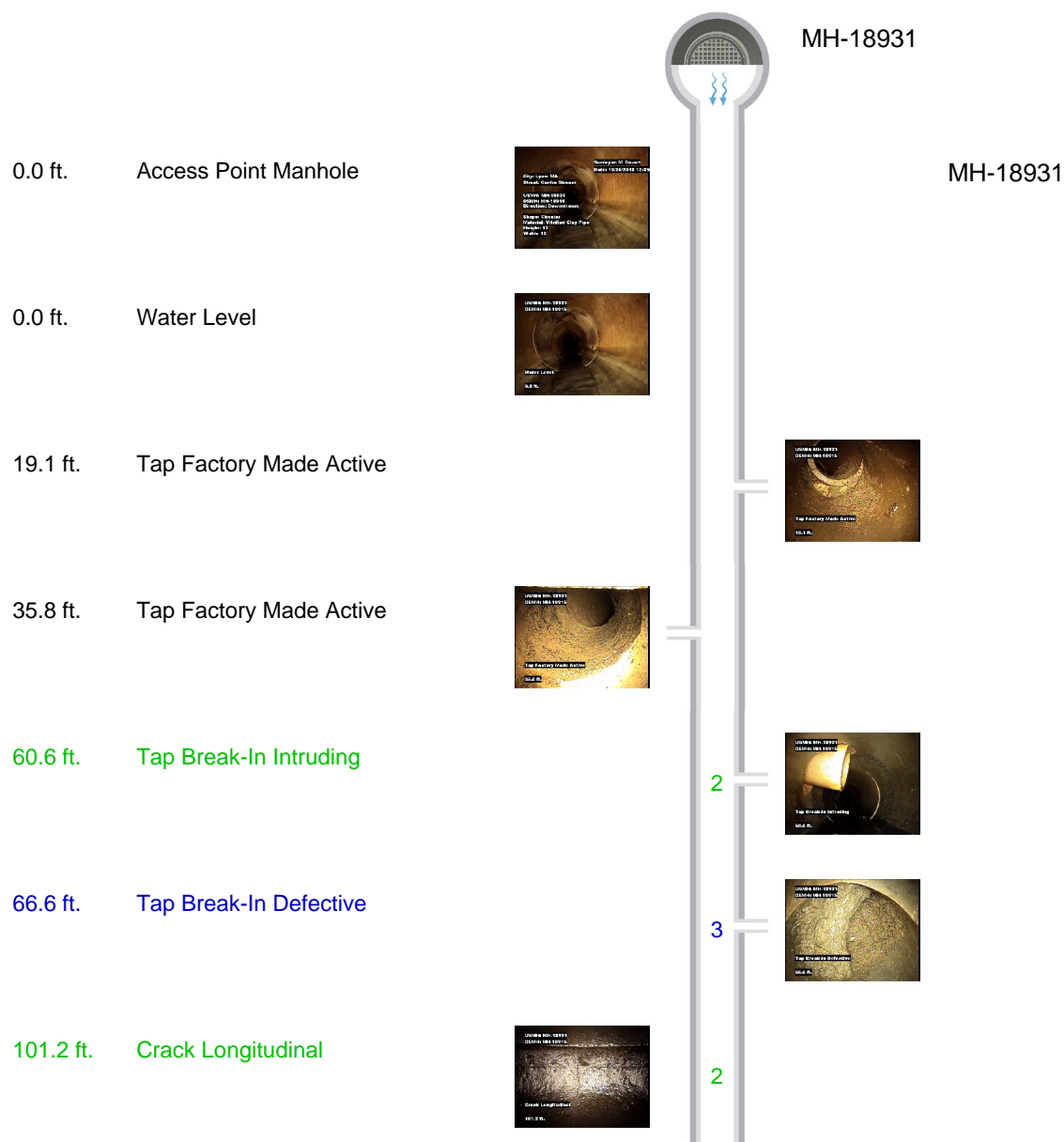
Inspected Ln.: 264

Project Total Ln.: 264.0

Project Inspected Ln.: 264.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18931_MH-18916	Lynn- MA	Centre Streeet	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18931	264		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18916	264		12	12	
SPR 35	MPR 17	PO Number		Customer	
SPRI 2.5	MPRI 2.1	Work Order		Stantec	
QSR 4233	QMR 3127			Purpose	
				Maintenance Related	
OPR 52	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181025	10-25-18	
OPRI 2.4	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	13:08	Dry	
Date Cleaned			End Time	Additional Info	
20181025			13:32		



Defect Listing Plot with Images

Pipe Segment Refere... MH-18931_MH-18916	City Lynn- MA	Street Centre Streeet	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18931	Total Length 264	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18916	Length surveyed 264	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR 35	MPR 17	PO Number		Customer Stantec	
SPRI 2.5	MPRI 2.1	Work Order		Purpose Maintenance Related	
QSR 4233	QMR 3127				
OPR 52	Surveyed By M_Davert	Direction Downstream	Date 20181025	Media label 10-25-18	
OPRI 2.4	Certificate Number 07003881	Pre-Cleaning Heavy Cleaning	Time 13:08	Weather Dry	
Date Cleaned 20181025			End Time 13:32	Additional Info	

105.4 ft. Crack Longitudinal

2



106.9 ft. Crack Longitudinal

2



109.6 ft. Crack Longitudinal

2



118.4 ft. Tap Factory Made Active



129.4 ft. Crack Longitudinal

2



147.1 ft. Crack Longitudinal

2



148.5 ft. Tap Break-In Intruding

2



153.2 ft. Crack Longitudinal

2



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18931_MH-18916	Lynn- MA	Centre Streeet	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18931	264		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18916	264		12	12	
SPR 35	MPR 17	PO Number		Customer	
SPRI 2.5	MPRI 2.1	Work Order		Stantec	
QSR 4233	QMR 3127			Purpose	
				Maintenance Related	
OPR 52	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181025	10-25-18	
OPRI 2.4	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	13:08	Dry	
Date Cleaned			End Time	Additional Info	
20181025			13:32		

153.2 ft. Tap Break-In Intruding



2

154.3 ft. Fracture Multiple



4

155.5 ft. Fracture Longitudinal



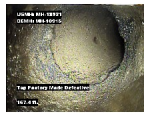
3

159.3 ft. Fracture Multiple



4

167.4 ft. Tap Factory Made Defective



2

175.6 ft. Tap Factory Made Defective



2

176.0 ft. Crack Longitudinal



2

183.7 ft. Crack Longitudinal

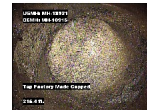


2

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18931_MH-18916	Lynn- MA	Centre Streeet	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18931	264		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18916	264		12	12	
SPR 35	MPR 17	PO Number		Customer	
SPRI 2.5	MPRI 2.1	Work Order		Stantec	
QSR 4233	QMR 3127			Purpose	
				Maintenance Related	
OPR 52	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181025	10-25-18	
OPRI 2.4	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	13:08	Dry	
Date Cleaned			End Time	Additional Info	
20181025			13:32		

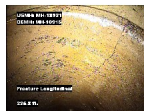
216.4 ft. Tap Factory Made Capped



219.7 ft. Tap Break-In Intruding



226.8 ft. Fracture Longitudinal



239.7 ft. Fracture Longitudinal



251.4 ft. Water Level



259.9 ft. Tap Break-In Intruding



264.0 ft. Survey Abandoned



Needs more cleaning

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18906	MH-18841	MH-18841_MH18906	12/19/2018	Federal Street	PolyVinyl Chloride	12	74	74

Pipe Size: 12

Total Ln.: 74

Inspected Ln.: 74

Project Total Ln.: 74.0

Project Inspected Ln.: 74.0

Defect Listing

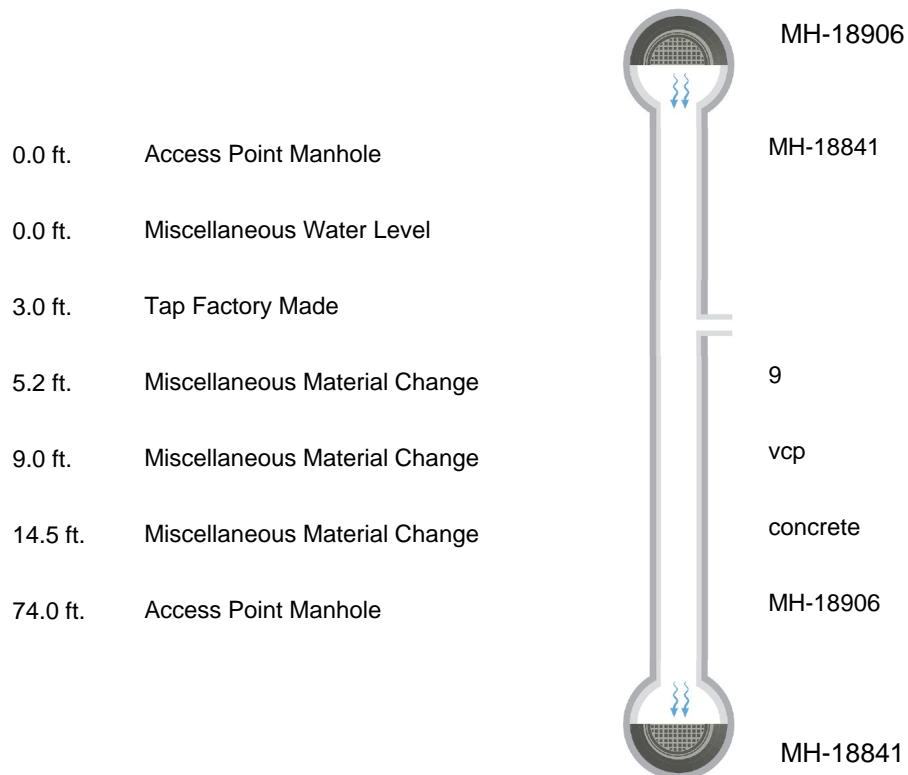
Pipe Segment Refere... MH-18841_MH18906	City LYNN	Street Federal Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18906	Total Length 74	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18841	Length surveyed 74	Year Renewed	Height 12	Width 12	Pipe Joint... 13	

SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181219	Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning No Pre-Cleaning	Time 09:57	Weather Dry - No P...	
Date Cleaned			End Time 10:05	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: MH-18841									
0.0 ft.	Miscellaneous Water Level				0	<input type="checkbox"/>			
3.0 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	10		
5.2 ft.	Miscellaneous Material Change				5	<input type="checkbox"/>			
Remarks: 9									
9.0 ft.	Miscellaneous Material Change				5	<input type="checkbox"/>			
Remarks: vcp									
14.5 ft.	Miscellaneous Material Change				5	<input type="checkbox"/>			
Remarks: concrete									
74.0 ft.	Access Point Manhole				5	<input type="checkbox"/>			
Remarks: MH-18906									

Defect Listing Plot

Pipe Segment Refere... MH-18841_MH18906	City LYNN	Street Federal Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18906	Total Length 74	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18841	Length surveyed 74	Year Renewed	Height 12	Width 12	Pipe Joint... 13	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181219		Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning No Pre-Cleaning	Time 09:57		Weather Dry - No P...	
Date Cleaned			End Time 10:05		Additional Info	



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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18911	MH-18876	MH-18876_MH-18911	10/9/2018	Federal Street	Vitrified Clay Pipe	8	248	248

Pipe Size: 8

Total Ln.: 248

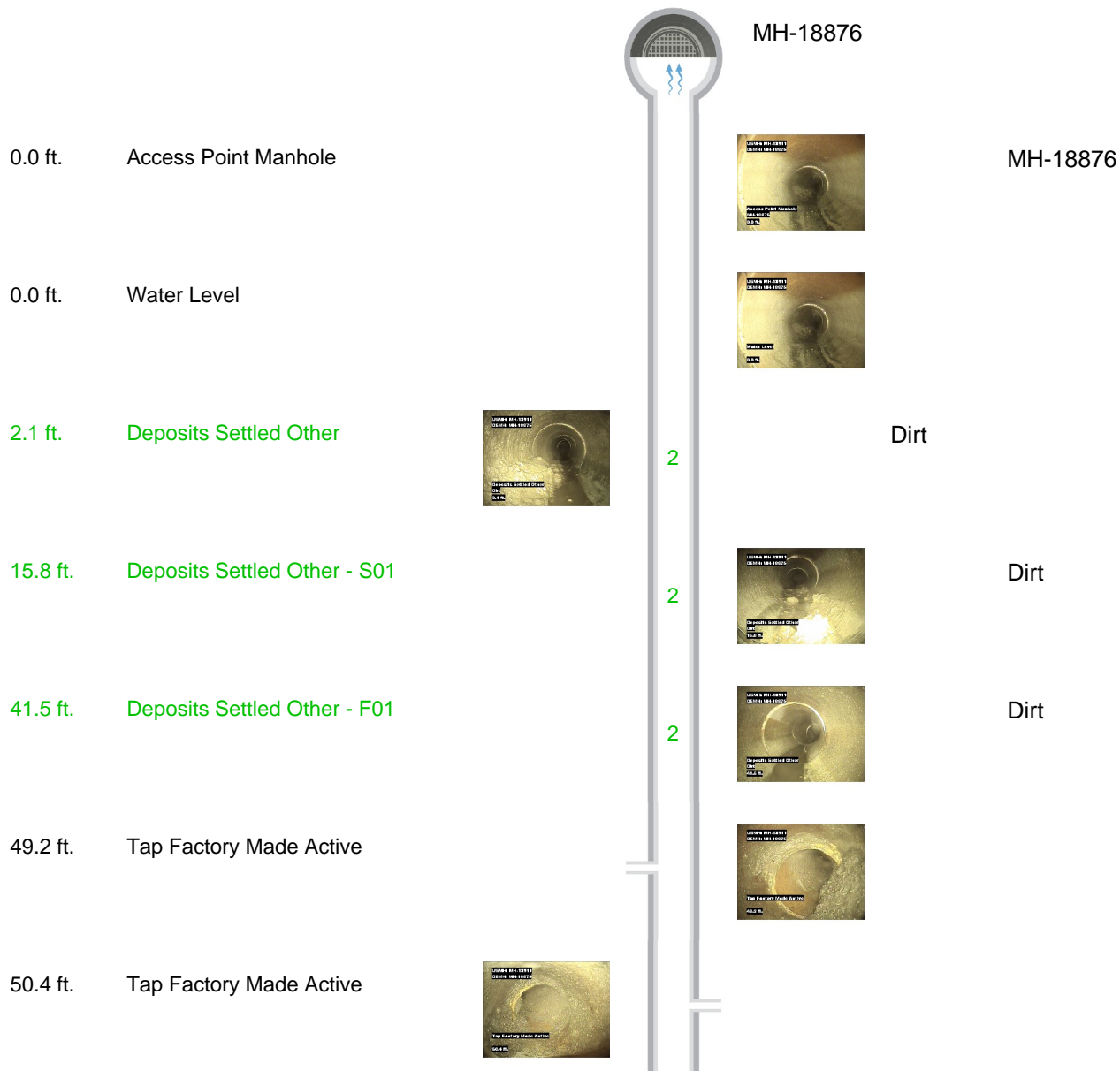
Inspected Ln.: 248

Project Total Ln.: 248.0

Project Inspected Ln.: 248.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18876_MH-18911	City Lynn- Ma	Street Federal Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH MH-18911	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18876	Length surveyed 248	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 8	MPR 12	PO Number		Customer Stantec	
SPRI 2.7	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5121	QMR 2600				
OPR 20	Surveyed By Chris_M	Direction Upstream	Date 20181009	Media label 10-9-18	
OPRI 2.2	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 13:33	Weather Dry	
Date Cleaned 20181009			End Time 13:51	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18876_MH-18911	City Lynn- Ma	Street Federal Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH MH-18911	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18876	Length surveyed 248	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 8	MPR 12	PO Number		Customer Stantec	
SPRI 2.7	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5121	QMR 2600				
OPR 20	Surveyed By Chris_M	Direction Upstream	Date 20181009	Media label 10-9-18	
OPRI 2.2	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 13:33	Weather Dry	
Date Cleaned 20181009			End Time 13:51	Additional Info	

73.1 ft. Tap Factory Made Active



76.4 ft. Tap Factory Made Capped



95.8 ft. Joint Offset Medium



1

98.8 ft. Tap Factory Made Active



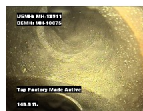
104.1 ft. Tap Factory Made Active



139.8 ft. Tap Factory Made Active



149.9 ft. Tap Factory Made Active



181.4 ft. Tap Factory Made Active



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18876_MH-18911	Lynn- Ma	Federal Street	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18911	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18876	248		8	8	
SPR 8	MPR 12	PO Number		Customer	
SPRI 2.7	MPRI 2			Stantec	
QSR 5121	QMR 2600	Work Order		Purpose	
				Maintenance Related	
OPR 20	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181009	10-9-18	
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	13:33	Dry	
Date Cleaned			End Time	Additional Info	
20181009			13:51		

196.0 ft. Tap Factory Made Capped



196.2 ft. Fracture Circumferential



196.6 ft. Broken Pipe Void Visible



198.0 ft. Tap Factory Made Active



226.8 ft. Tap Factory Made Active



240.0 ft. Tap Factory Made Active



248.0 ft. Access Point Manhole



MH-18911



MH-18911



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18686	MH-18681	MH-18686_MH-18681	10/11/2018	Hobson Street	Vitrified Clay Pipe	8	180	180

Pipe Size: 8

Total Ln.: 180

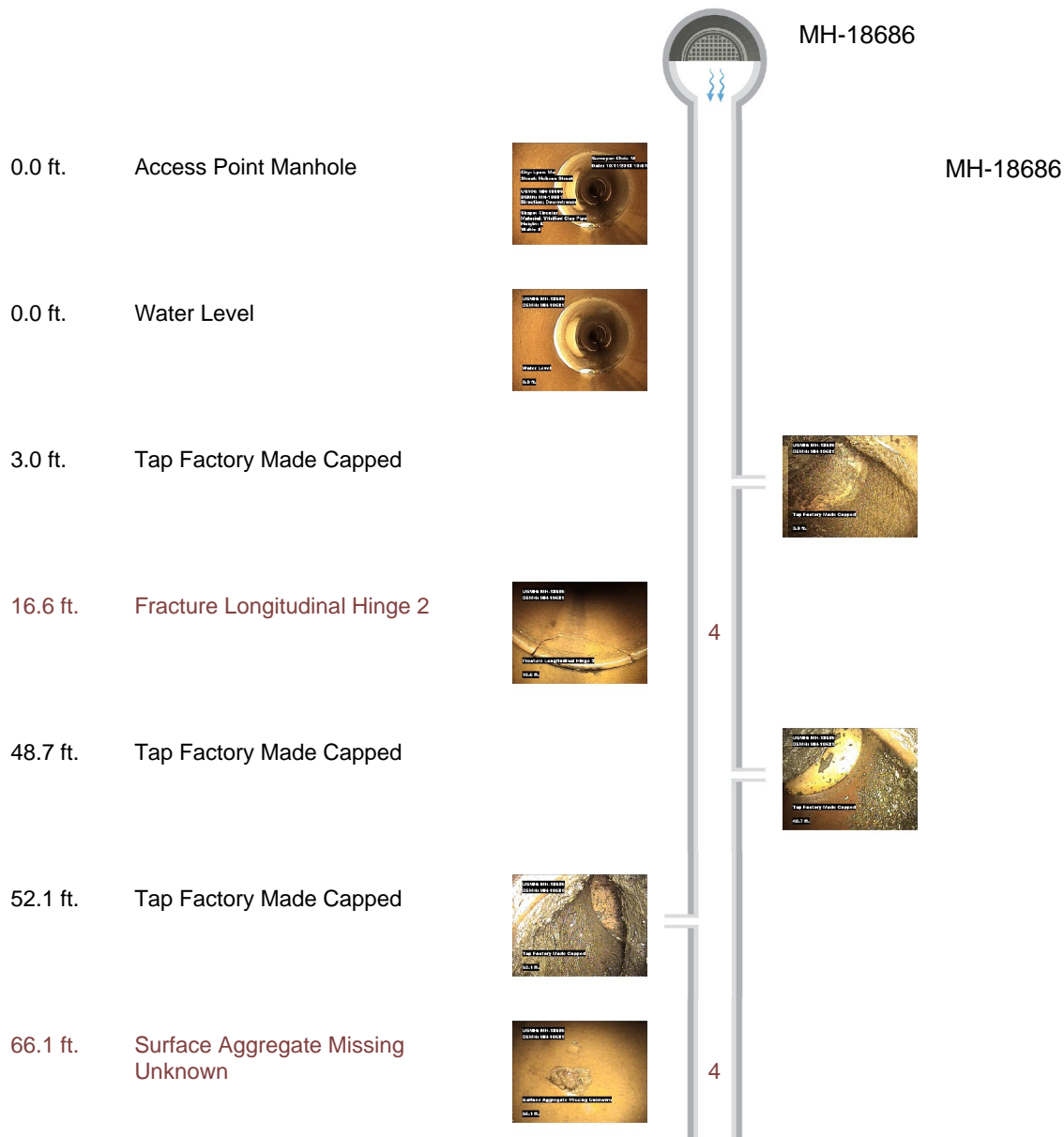
Inspected Ln.: 180

Project Total Ln.: 180.0

Project Inspected Ln.: 180.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18686_MH-18681	City Lynn- Ma	Street Hobson Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18686	Total Length 180	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18681	Length surveyed 180	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 19	MPR N/A	PO Number		Customer Stantec	
SPRI 3.8	MPRI N/A	Work Order		Purpose Maintenance Related	
QSR 5143	QMR N/A				
OPR 19	Surveyed By Chris_M	Direction Downstream	Date 20181011	Media label 10-11-18	
OPRI 3.8	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 10:58	Weather Damp	
Date Cleaned 20181011			End Time 11:19	Additional Info	



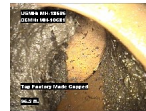
Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18686_MH-18681	Lynn- Ma	Hobson Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18686	180		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18681	180		8	8	
SPR 19	MPR N/A	PO Number		Customer	
SPRI 3.8	MPRI N/A			Stantec	
QSR 5143	QMR N/A	Work Order		Purpose	
				Maintenance Related	
OPR 19	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 3.8	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	10:58	Damp	
Date Cleaned			End Time	Additional Info	
20181011			11:19		

91.6 ft. Tap Factory Made Capped



96.2 ft. Tap Factory Made Capped

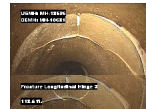


105.2 ft. Crack Longitudinal



2

118.6 ft. Fracture Longitudinal Hinge 3



5

122.6 ft. Tap Factory Made Capped



123.2 ft. Tap Factory Made Capped



135.7 ft. General Observation



Bubble in Pipe Wall

147.7 ft. Water Level



Defect Listing Plot with Images

Pipe Segment Refere... MH-18686_MH-18681	City Lynn- Ma	Street Hobson Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18686	Total Length 180	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18681	Length surveyed 180	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 19	MPR N/A	PO Number		Customer Stantec	
SPRI 3.8	MPRI N/A	Work Order		Purpose Maintenance Related	
QSR 5143	QMR N/A				
OPR 19	Surveyed By Chris_M	Direction Downstream	Date 20181011	Media label 10-11-18	
OPRI 3.8	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 10:58	Weather Damp	
Date Cleaned 20181011			End Time 11:19	Additional Info	

173.7 ft. Fracture Longitudinal Hinge 2

180.0 ft. Access Point Manhole



MH-18681

MH-18681



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18691	MH-18686	MH-18686_MH-18691	10/11/2018	Hobson Street	Vitrified Clay Pipe	8	162	60

Pipe Size: 8

Total Ln.: 162

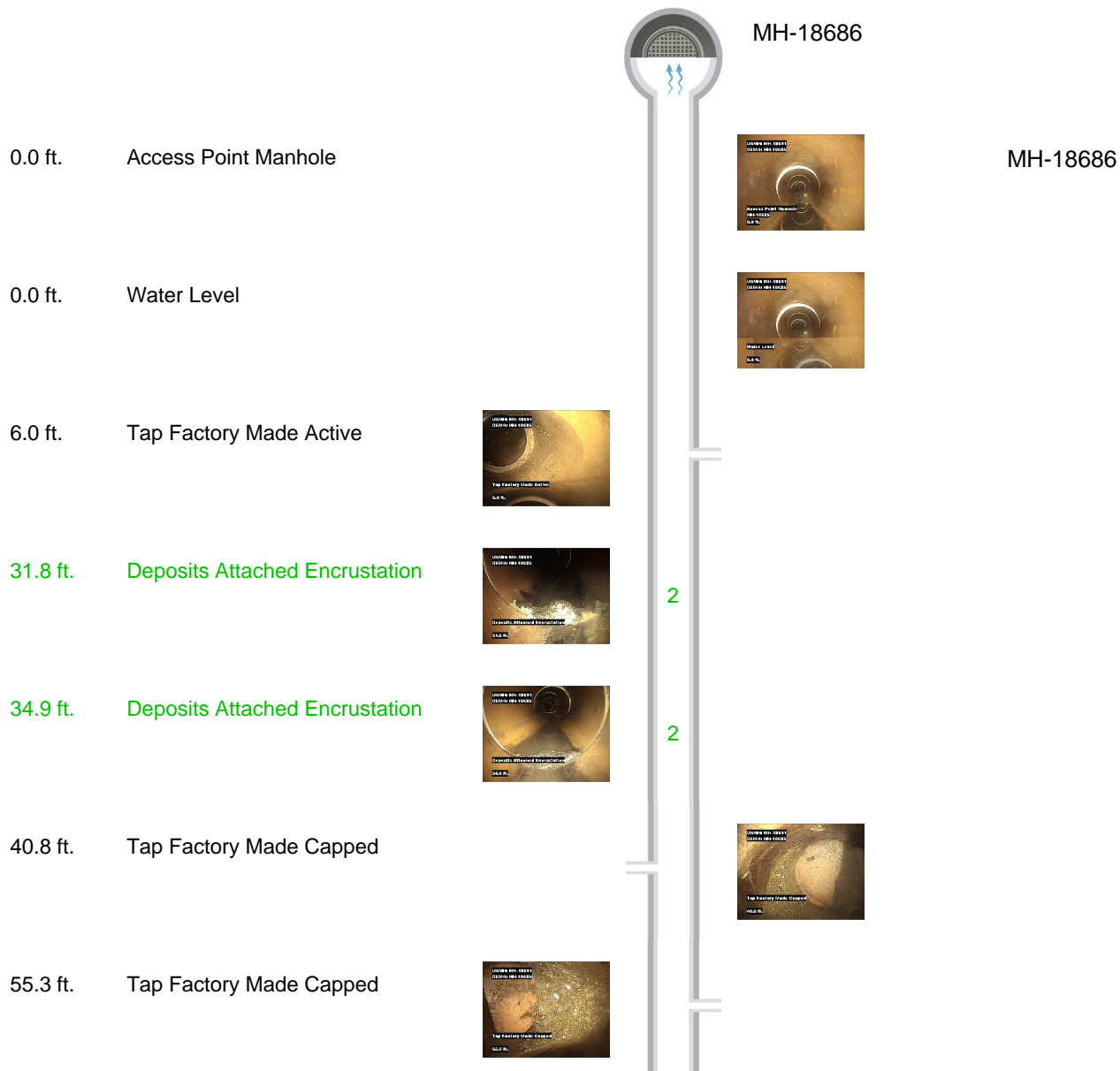
Inspected Ln.: 60

Project Total Ln.: 162.0

Project Inspected Ln.: 60.0

Defect Listing Plot with Images

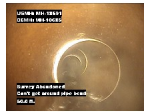
Pipe Segment Refere... MH-18686_MH-18691		City Lynn- Ma	Street Hobson Street	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH MH-18691		Total Length 162	Year Laid	Shape Circular		Location Details	
DS Manhole MH-18686		Length surveyed 60	Year Renewed	Height 8	Width 8	Pipe Joint...	
SPR	N/A	MPR	4	PO Number		Customer Stantec	
SPRI	N/A	MPRI	2	Work Order		Purpose	
QSR	N/A	QMR	2200			Maintenance Related	
OPR 4	Surveyed By Chris_M		Direction Upstream	Date 20181011		Media label 10-11-18	
OPRI 2	Certificate Number 10-08-7625		Pre-Cleaning Jetting	Time 08:24		Weather Light Rain	
Date Cleaned 20181011				End Time 08:30		Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18686_MH-18691		City Lynn- Ma	Street Hobson Street	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH MH-18691		Total Length 162	Year Laid	Shape Circular		Location Details	
DS Manhole MH-18686		Length surveyed 60	Year Renewed	Height 8	Width 8	Pipe Joint...	
SPR	N/A	MPR	4	PO Number		Customer Stantec	
SPRI	N/A	MPRI	2	Work Order		Purpose Maintenance Related	
QSR	N/A	QMR	2200				
OPR		Surveyed By Chris_M	Direction Upstream	Date 20181011		Media label 10-11-18	
OPRI		Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 08:24		Weather Light Rain	
Date Cleaned 20181011				End Time 08:30		Additional Info	

60.0 ft. Survey Abandoned



Can't get around pipe bend.
No Reversal. MH Buried

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18391	MH-18791	MH-18391_MH-18791	10/11/2018	Lowel Street	Vitrified Clay Pipe	12	150	150

Pipe Size: 12

Total Ln.: 150

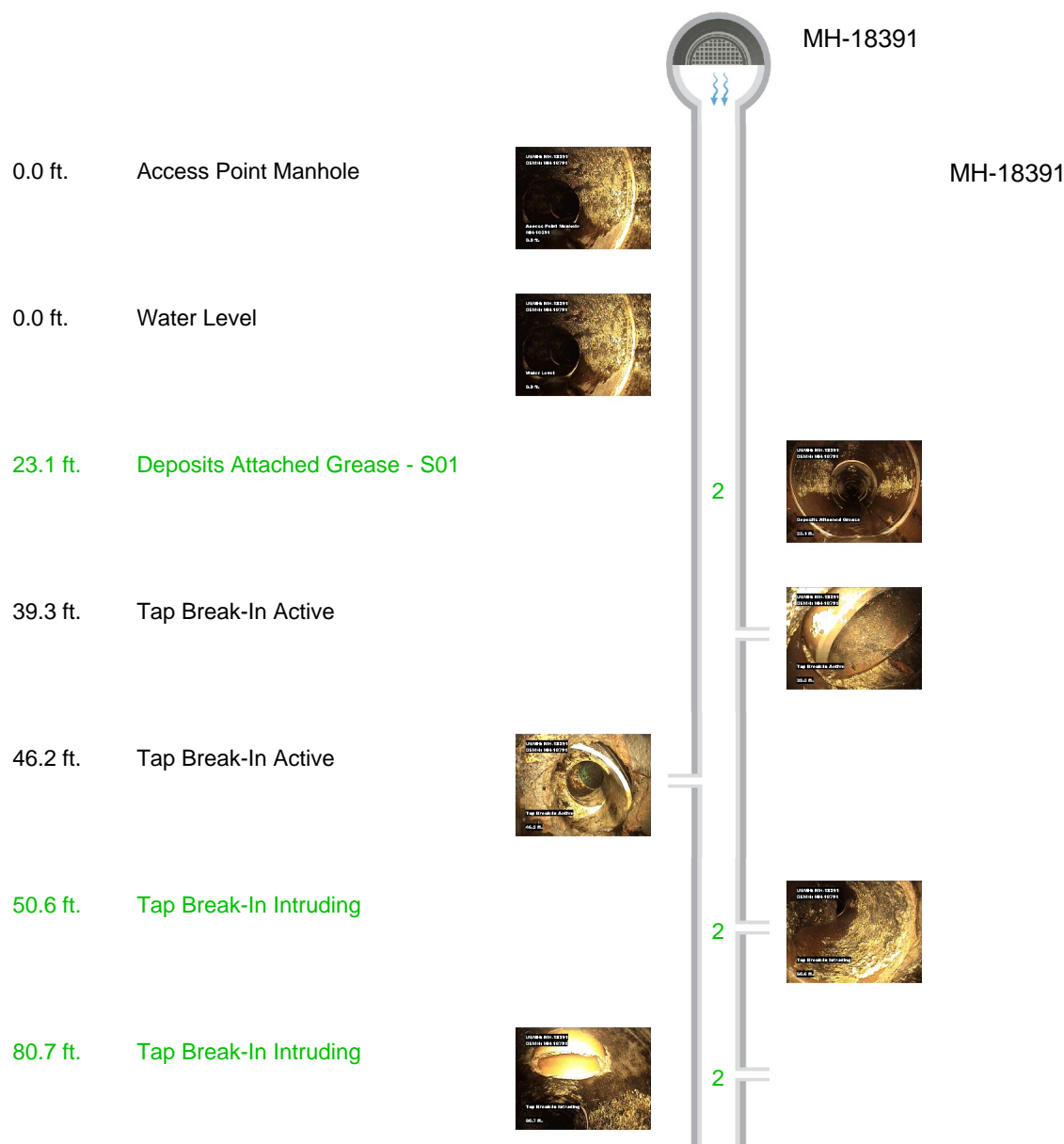
Inspected Ln.: 150

Project Total Ln.: 150.0

Project Inspected Ln.: 150.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18391_MH-18791	Lynn- Ma	Lowel Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18391	150		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18791	150		12	12	
SPR 3	MPR 54	PO Number		Customer	
SPRI 3	MPRI 2			Stantec	
QSR 3100	QMR 2D00	Work Order		Purpose	
				Maintenance Related	
OPR 57	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 2	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	13:19	Damp	
Date Cleaned			End Time	Additional Info	
20181011			13:29		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18391_MH-18791	Lynn- Ma	Lowe Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18391	150		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18791	150		12	12	
SPR 3	MPR 54	PO Number		Customer	
SPRI 3	MPRI 2			Stantec	
QSR 3100	QMR 2D00	Work Order		Purpose	
				Maintenance Related	
OPR 57	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 2	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	13:19	Damp	
Date Cleaned			End Time	Additional Info	
20181011			13:29		

104.2 ft. Tap Factory Made Active



130.2 ft. Tap Factory Made Active



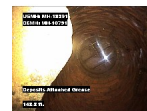
139.1 ft. Tap Factory Made Active



145.7 ft. Fracture Longitudinal



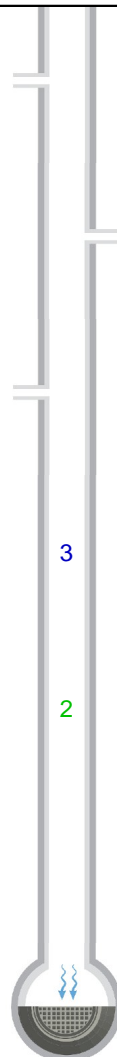
148.8 ft. Deposits Attached Grease - F01



150.0 ft. Access Point Manhole



MH-18791



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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18781	MH-18746	MH-18746_MH-18781 REV	12/20/2018	Lowell Street	Vitrified Clay Pipe	12	0	18

Pipe Size: 12

Total Ln.: 0

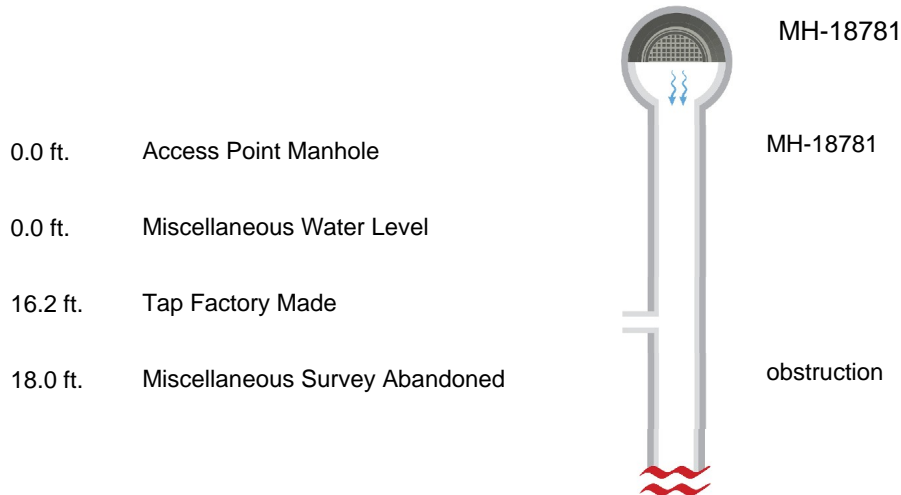
Inspected Ln.: 18

Project Total Ln.: 0.0

Project Inspected Ln.: 18.0

Defect Listing Plot

Pipe Segment Refere... MH-18746_MH-18781 R...	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18781	Total Length	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18746	Length surveyed 18	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lowell		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220		Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 11:14		Weather Dry - No P...	
Date Cleaned 20181220			End Time 11:17		Additional Info	



Defect Listing

Pipe Segment Refere... MH-18746_MH-18781 R...	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18781	Total Length	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18746	Length surveyed 18	Year Renewed	Height 12	Width 12	Pipe Joint... 3	

SPR	MPR	PO Number		Customer	
SPRI	MPRI			City of Lowell	
QSR	QMR	Work Order Number		Purpose	
OPR				Maintenance Related	
OPRI	Surveyed By W.Martinez	Direction Downstream	Date 20181220		Media label 12-20-18
	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 11:14		Weather Dry - No P...
Date Cleaned 20181220			End Time 11:17		Additional Info

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: MH-18781									
0.0 ft.	Miscellaneous Water Level				25	<input type="checkbox"/>			
16.2 ft.	Tap Factory Made		6		5	<input type="checkbox"/>	2		
18.0 ft.	Miscellaneous Survey Abandoned				5	<input type="checkbox"/>			
Remarks: obstruction									

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18786	MH-18781	MH-18786_MH-18781	12/20/2018	Lowell Street	Vitrified Clay Pipe	12	200	200

Pipe Size: 12

Total Ln.: 200

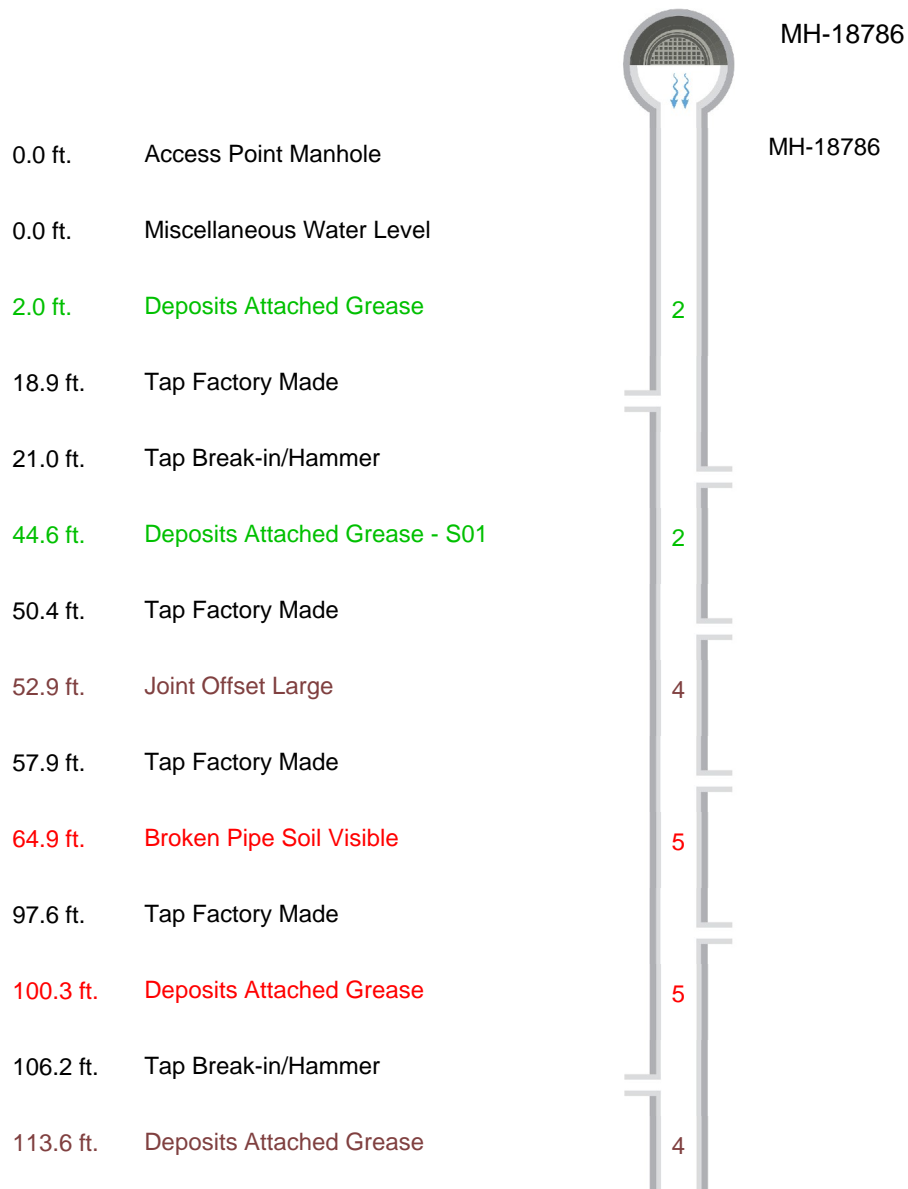
Inspected Ln.: 200

Project Total Ln.: 200.0

Project Inspected Ln.: 200.0

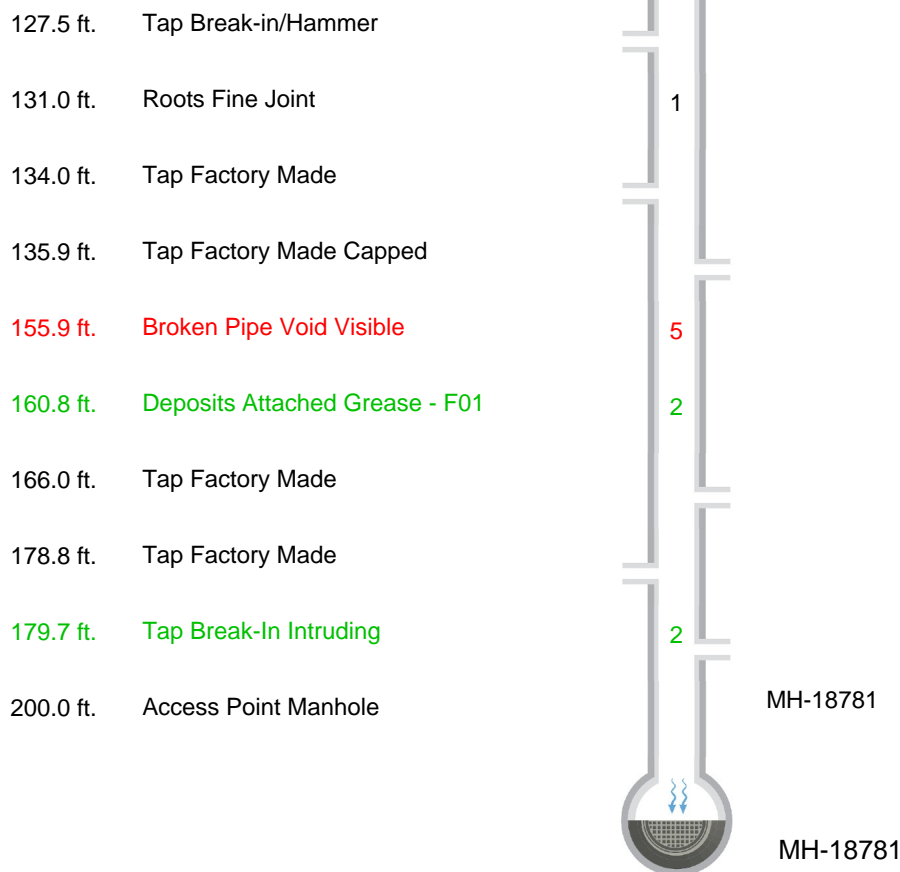
Defect Listing Plot

Pipe Segment Refere... MH-18786_MH-18781	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18786	Total Length 200	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18781	Length surveyed 200	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220		Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 08:38		Weather Dry - No P...	
Date Cleaned 20181220			End Time 09:08		Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH-18786_MH-18781	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18786	Total Length 200	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18781	Length surveyed 200	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 08:38	Weather Dry - No P...	
Date Cleaned 20181220			End Time 09:08	Additional Info	



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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18791	MH-18746	MH-18791_MH-18746	12/20/2018	Lowell Street	Vitrified Clay Pipe	12	0	11

Pipe Size: 12

Total Ln.: 0

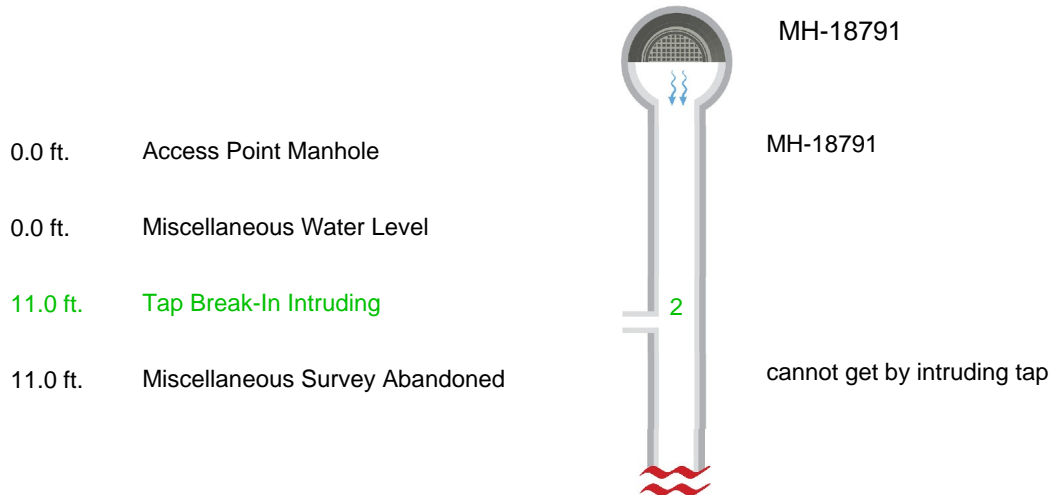
Inspected Ln.: 11

Project Total Ln.: 0.0

Project Inspected Ln.: 11.0

Defect Listing Plot

Pipe Segment Refere... MH-18791_MH-18746	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18791	Total Length	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18746	Length surveyed 11	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lowell		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220		Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 09:50		Weather Dry - No P...	
Date Cleaned 20181220			End Time 09:52		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18791	MH-18786	MH-18791_MH-18786	12/20/2018	Lowell Street	Vitrified Clay Pipe	12	200	200

Pipe Size: 12

Total Ln.: 200

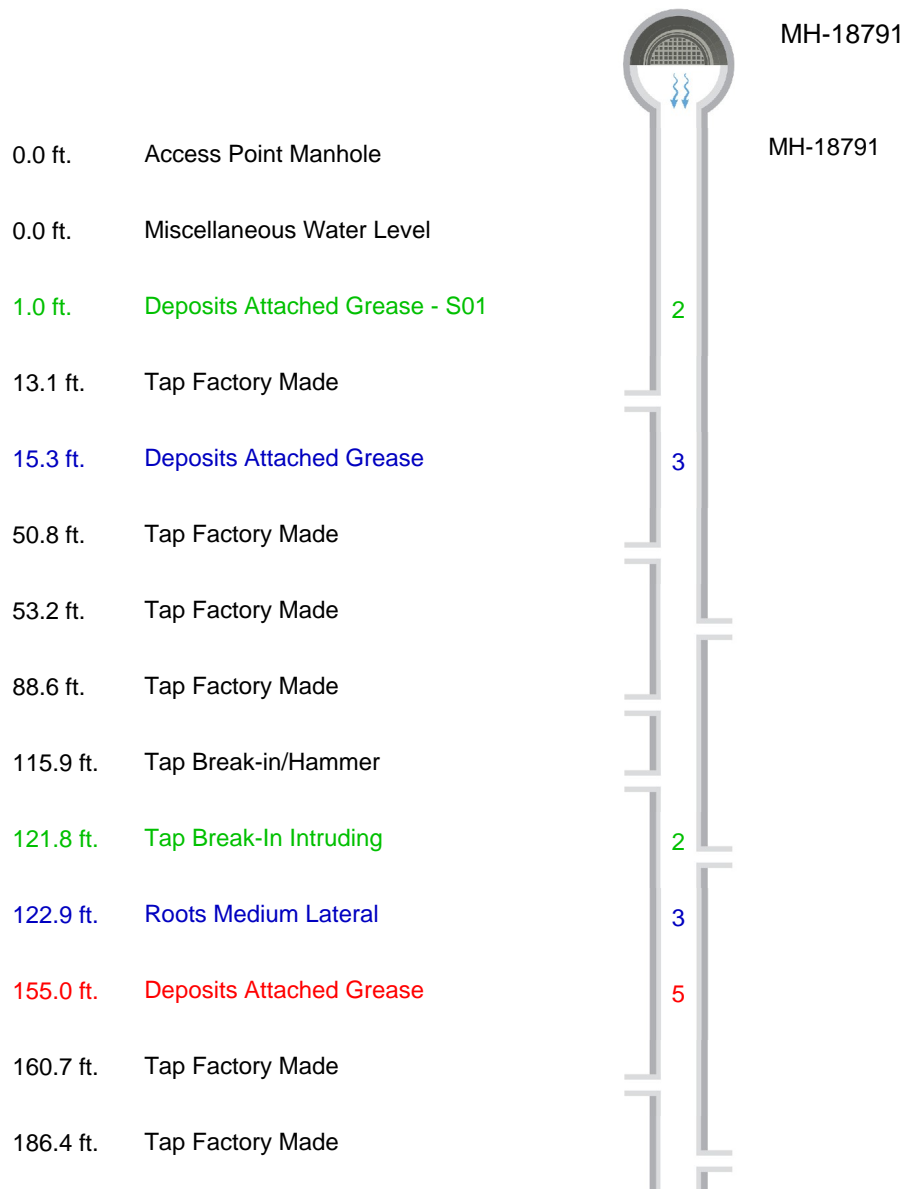
Inspected Ln.: 200

Project Total Ln.: 200.0

Project Inspected Ln.: 200.0

Defect Listing Plot

Pipe Segment Refere... MH-18791_MH-18786	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18791	Total Length 200	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18786	Length surveyed 200	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220		Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 08:13		Weather Dry - No P...	
Date Cleaned 20181220			End Time 08:26		Additional Info	



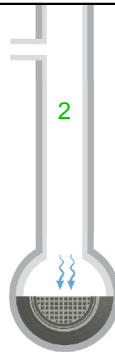
Defect Listing Plot

Pipe Segment Refere... MH-18791_MH-18786	City LYNN	Street Lowell Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18791	Total Length 200	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18786	Length surveyed 200	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 08:13	Weather Dry - No P...	
Date Cleaned 20181220			End Time 08:26	Additional Info	

194.3 ft. Tap Break-in/Hammer

196.8 ft. Deposits Attached Grease - F01

200.0 ft. Access Point Manhole



MH-18786

MH-18786

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18791	MH-18786	MH-18791_MH-18786	10/11/2018	Lowel Street	Vitrified Clay Pipe	12	159	159

Pipe Size: 12

Total Ln.: 159

Inspected Ln.: 159

Project Total Ln.: 159.0

Project Inspected Ln.: 159.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18791_MH-18786	City Lynn- Ma	Street Lowel Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18791	Total Length 159	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18786	Length surveyed 159	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR 4	MPR 89	PO Number		Customer Stantec	
SPRI 2	MPRI 2.1	Work Order		Purpose Maintenance Related	
QSR 2200	QMR 5141				
OPR 93	Surveyed By Chris_M	Direction Downstream	Date 20181011	Media label 10-11-18	
OPRI 2.1	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 13:32	Weather Damp	
Date Cleaned 20181011			End Time 13:53	Additional Info	



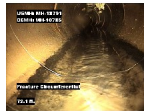
Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18791_MH-18786	Lynn- Ma	Lowel Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18791	159		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18786	159		12	12	
SPR 4	MPR 89	PO Number		Customer	
SPRI 2	MPRI 2.1	Work Order		Stantec	
QSR 2200	QMR 5141			Purpose	
				Maintenance Related	
OPR 93	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	13:32	Damp	
Date Cleaned			End Time	Additional Info	
20181011			13:53		

51.4 ft. Tap Factory Made Active



72.1 ft. Fracture Circumferential



2

88.4 ft. Tap Factory Made Active



103.8 ft. Fracture Circumferential



2

113.0 ft. Deposits Attached Grease



4

116.2 ft. Tap Break-In Intruding



2

121.6 ft. Tap Break-In Intruding



2

Fine Roots at Break In

124.9 ft. Roots Fine Joint



1

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18791_MH-18786	Lynn- Ma	Lowel Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18791	159		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18786	159		12	12	
SPR 4	MPR 89	PO Number		Customer	
SPRI 2	MPRI 2.1	Work Order		Stantec	
QSR 2200	QMR 5141			Purpose	
				Maintenance Related	
OPR 93	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	13:32	Damp	
Date Cleaned			End Time	Additional Info	
20181011			13:53		

128.2 ft. Roots Fine Joint



1

131.8 ft. Roots Fine Joint

1



139.9 ft. Deposits Attached Grease

3



151.8 ft. Deposits Attached Grease

5



159.0 ft. Survey Abandoned

5



Too Much Grease

159.0 ft. Deposits Attached Grease - F01

2





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-26-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18756	MH-18761	MH-18761_MH-18756	10/25/2018	Lowel Street Court	Vitrified Clay Pipe	8	204	204

Pipe Size: 8

Total Ln.: 204

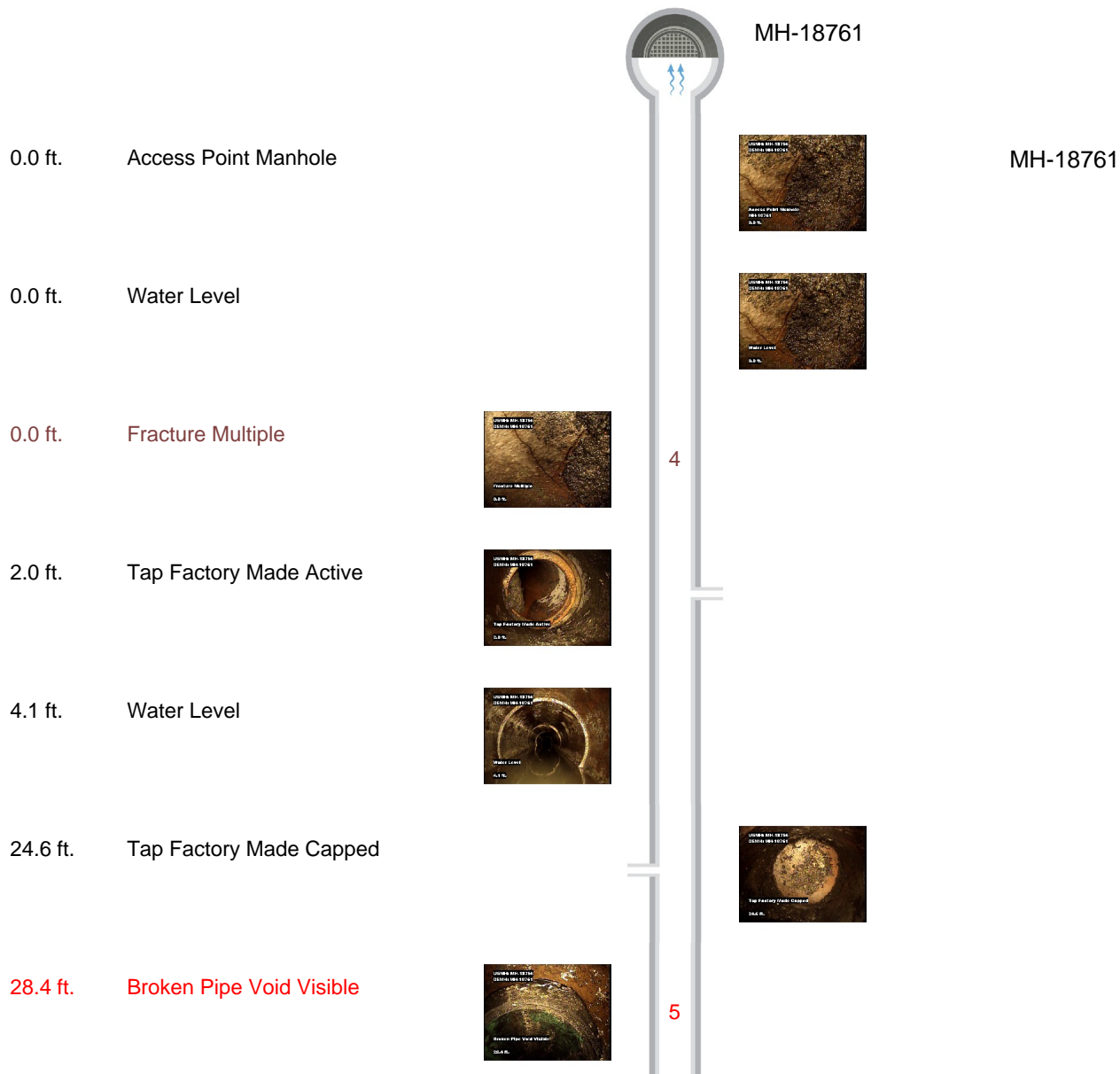
Inspected Ln.: 204

Project Total Ln.: 204.0

Project Inspected Ln.: 204.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18761_MH-18756	Lynn- MA	Lowel Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18756	204		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18761	204		8	8	
SPR 34	MPR 2	PO Number		Customer	
SPRI 3.4	MPRI 2			Stantec	
QSR 5442	QMR 2100	Work Order		Purpose	
				Maintenance Related	
OPR 36	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181025	10-25-18	
OPRI 3.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:22	Dry	
Date Cleaned			End Time	Additional Info	
20181025			09:44		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18761_MH-18756	Lynn- MA	Lowel Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18756	204		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18761	204		8	8	
SPR 34	MPR 2	PO Number		Customer	
SPRI 3.4	MPRI 2			Stantec	
QSR 5442	QMR 2100	Work Order		Purpose	
				Maintenance Related	
OPR 36	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181025	10-25-18	
OPRI 3.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:22	Dry	
Date Cleaned			End Time	Additional Info	
20181025			09:44		

28.4 ft. Material Change



PVC

30.8 ft. Tap Factory Made Active



31.0 ft. Material Change



VCP

31.4 ft. Broken Pipe Void Visible



5

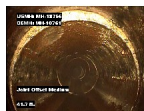
35.0 ft. Tap Factory Made Capped



36.3 ft. Water Level



41.7 ft. Joint Offset Medium



1

49.6 ft. Tap Factory Made Capped



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18761_MH-18756	Lynn- MA	Lowel Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18756	204		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18761	204		8	8	
SPR 34	MPR 2	PO Number		Customer	
SPRI 3.4	MPRI 2			Stantec	
QSR 5442	QMR 2100	Work Order		Purpose	
				Maintenance Related	
OPR 36	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181025	10-25-18	
OPRI 3.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:22	Dry	
Date Cleaned			End Time	Additional Info	
20181025			09:44		

53.5 ft. Tap Factory Made Active



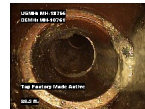
57.7 ft. Tap Factory Made Capped



80.7 ft. Tap Factory Made Capped



89.3 ft. Tap Factory Made Active



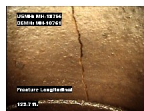
95.3 ft. Tap Factory Made Defective



117.9 ft. Tap Factory Made Active



122.7 ft. Fracture Longitudinal



124.5 ft. Tap Factory Made Capped



Defect Listing Plot with Images

Pipe Segment Refere... MH-18761_MH-18756	City Lynn- MA	Street Lowel Street Court	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18756	Total Length 204	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18761	Length surveyed 204	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 34	MPR 2	PO Number		Customer Stantec	
SPRI 3.4	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5442	QMR 2100				
OPR 36	Surveyed By M_Davert	Direction Upstream	Date 20181025	Media label 10-25-18	
OPRI 3.3	Certificate Number 07003881	Pre-Cleaning Jetting	Time 09:22	Weather Dry	
Date Cleaned 20181025			End Time 09:44	Additional Info	

130.7 ft. Broken Pipe

5



138.6 ft. Tap Factory Made Active



142.9 ft. Tap Factory Made Capped



148.1 ft. Tap Break-In Active



149.4 ft. Fracture Multiple

4



159.5 ft. Tap Factory Made Capped



161.0 ft. Tap Break-In Active



167.7 ft. Tap Factory Made Capped



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18761_MH-18756	Lynn- MA	Lowel Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18756	204		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18761	204		8	8	
SPR 34	MPR 2	PO Number		Customer	
SPRI 3.4	MPRI 2			Stantec	
QSR 5442	QMR 2100	Work Order		Purpose	
				Maintenance Related	
OPR 36	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181025	10-25-18	
OPRI 3.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:22	Dry	
Date Cleaned			End Time	Additional Info	
20181025			09:44		

188.3 ft. Joint Offset Medium



1

190.5 ft. Tap Factory Made Capped



192.6 ft. Joint Offset Medium



1

194.7 ft. Tap Factory Made Capped



196.9 ft. Hole Void Visible

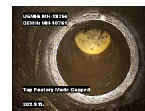


5

198.6 ft. Tap Factory Made Active



202.9 ft. Tap Factory Made Capped



204.0 ft. Survey Abandoned



End of Pipe Segment. No USMH.

Defect Listing Plot with Images

Pipe Segment Refere... MH-18761_MH-18756	City Lynn- MA	Street Lowel Street Court	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18756	Total Length 204	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18761	Length surveyed 204	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 34	MPR 2	PO Number		Customer Stantec	
SPRI 3.4	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5442	QMR 2100				
OPR 36	Surveyed By M_Davert	Direction Upstream	Date 20181025	Media label 10-25-18	
OPRI 3.3	Certificate Number 07003881	Pre-Cleaning Jetting	Time 09:22	Weather Dry	
Date Cleaned 20181025			End Time 09:44	Additional Info	



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Inland Waters Inc.
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		CITY OF LYNN CCTV						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH18761	MH18766	MH18761_MH18766	1/28/2019	Lowell Street Court	Vitrified Clay Pipe	8	118	118

Pipe Size: 8

Total Ln.: 118

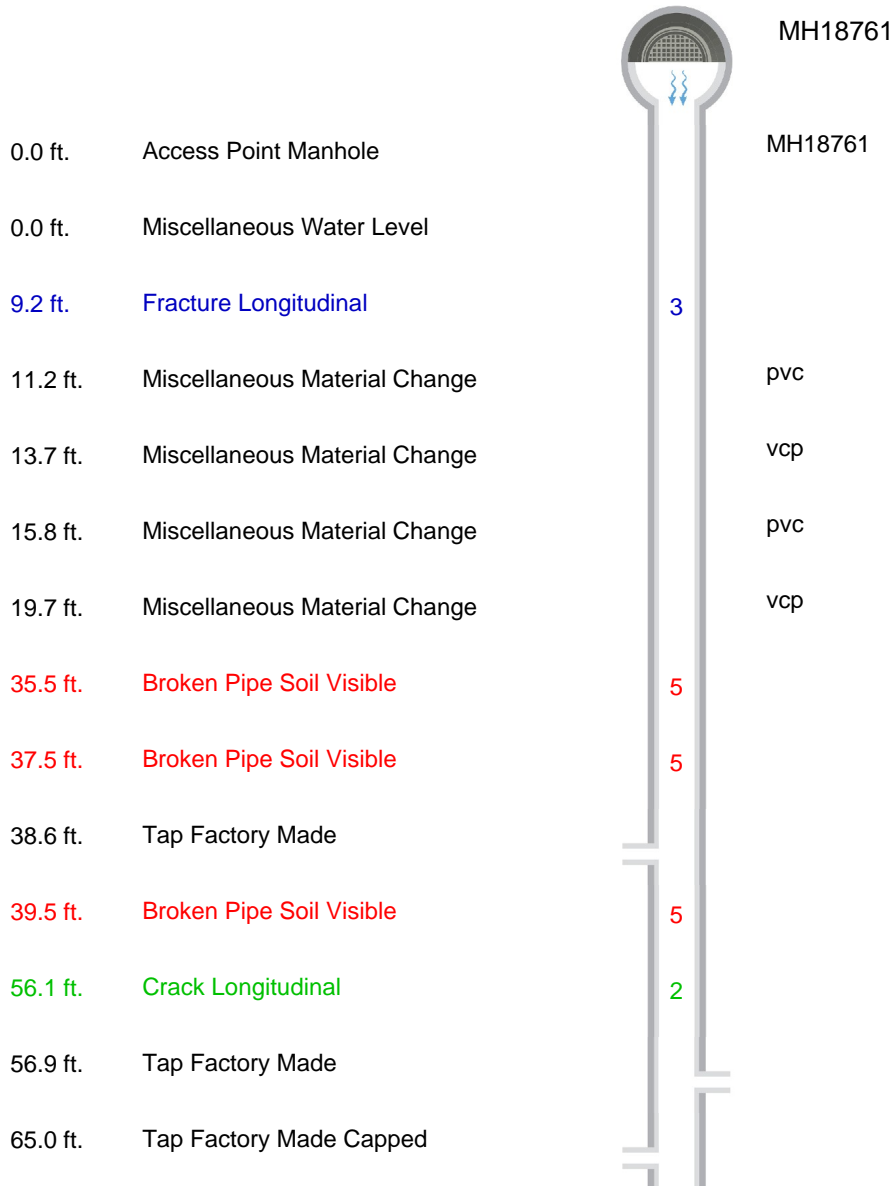
Inspected Ln.: 118

Project Total Ln.: 118.0

Project Inspected Ln.: 118.0

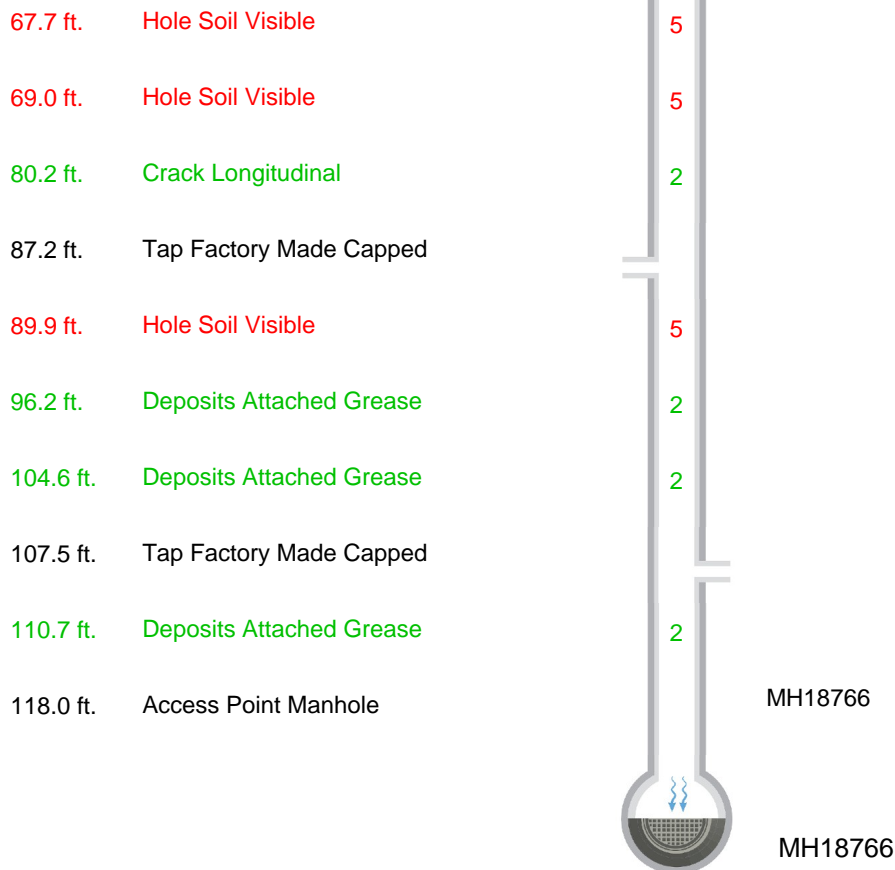
Defect Listing Plot

Pipe Segment Refere... MH18761_MH18766	City Lynn	Street Lowell Street Court	Material Vitrified Clay Pipe	Location C... Local/Rura...	Sewer Use Combined P...
Upstream MH MH18761	Total Length 118	Year Laid	Shape Circular	Location Details	
DS Manhole MH18766	Length surveyed 118	Year Renewed	Height 8	Width 8	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20190128	Media label 1-28-19	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 09:00	Weather Dry - No P...	
Date Cleaned 20190128			End Time 09:08	Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH18761_MH18766	City Lynn	Street Lowell Street Court	Material Vitrified Clay Pipe	Location C... Local/Rura...	Sewer Use Combined P...
Upstream MH MH18761	Total Length 118	Year Laid	Shape Circular	Location Details	
DS Manhole MH18766	Length surveyed 118	Year Renewed	Height 8	Width 8	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20190128	Media label 1-28-19	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 09:00	Weather Dry - No P...	
Date Cleaned 20190128			End Time 09:08	Additional Info	



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Inland Waters Inc.
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		CITY OF LYNN CCTV						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH18766	MH18771	MH18766_MH18771	1/28/2019	Lowell Street Court	Vitrified Clay Pipe	8	141	141

Pipe Size: 8

Total Ln.: 141

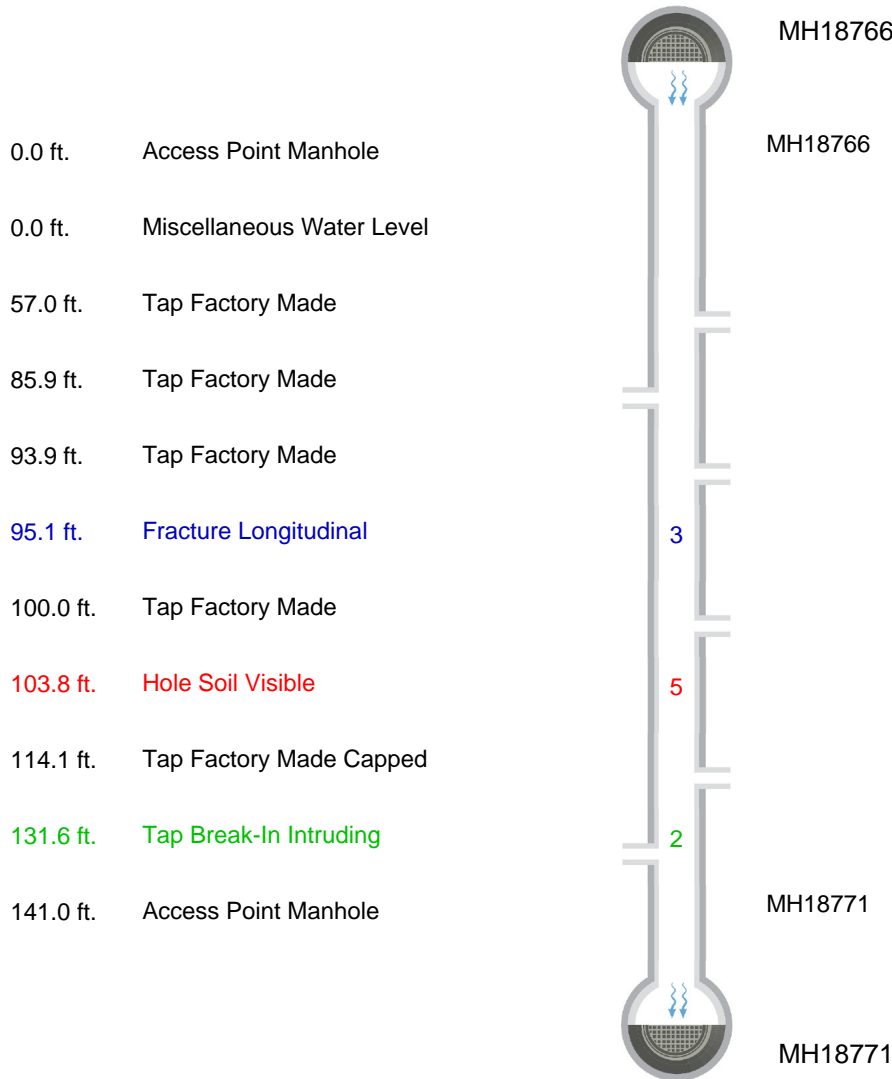
Inspected Ln.: 141

Project Total Ln.: 141.0

Project Inspected Ln.: 141.0

Defect Listing Plot

Pipe Segment Refere... MH18766_MH18771	City Lynn	Street Lowell Street Court	Material Vitrified Clay Pipe		Location C... Local/Rura...	Sewer Use Combined P...
Upstream MH MH18766	Total Length 141	Year Laid	Shape Circular		Location Details	
DS Manhole MH18771	Length surveyed 141	Year Renewed	Height 8	Width 8	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20190128		Media label 1-28-19	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 09:44		Weather Dry - No P...	
Date Cleaned 20190128			End Time 09:52		Additional Info	





Inland Waters Inc.
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		CITY OF LYNN CCTV						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH18771	MH18776	MH18771_MH18776	1/28/2019	Lowell Street Court	Vitrified Clay Pipe	8	187	187

Pipe Size: 8

Total Ln.: 187

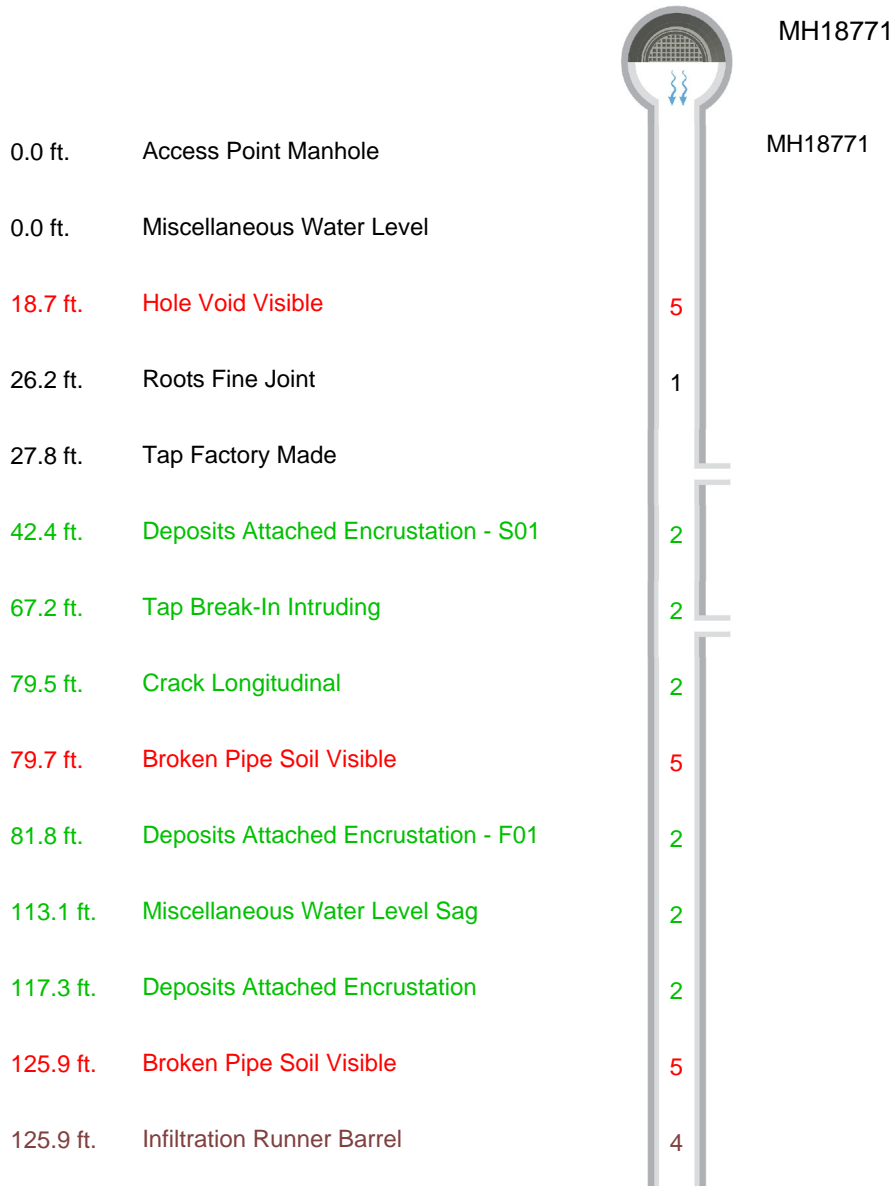
Inspected Ln.: 187

Project Total Ln.: 187.0

Project Inspected Ln.: 187.0

Defect Listing Plot

Pipe Segment Refere... MH18771_MH18776	City Lynn	Street Lowell Street Court	Material Vitrified Clay Pipe	Location C... Local/Rura...	Sewer Use Combined P...
Upstream MH MH18771	Total Length 187	Year Laid	Shape Circular	Location Details	
DS Manhole MH18776	Length surveyed 187	Year Renewed	Height 8	Width 8	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20190128	Media label 1-28-19	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 10:07	Weather Dry - No P...	
Date Cleaned 20190128			End Time 10:18	Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH18771_MH18776	City Lynn	Street Lowell Street Court	Material Vitrified Clay Pipe	Location C... Local/Rura...	Sewer Use Combined P...
Upstream MH MH18771	Total Length 187	Year Laid	Shape Circular	Location Details	
DS Manhole MH18776	Length surveyed 187	Year Renewed	Height 8	Width 8	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20190128	Media label 1-28-19	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 10:07	Weather Dry - No P...	
Date Cleaned 20190128			End Time 10:18	Additional Info	

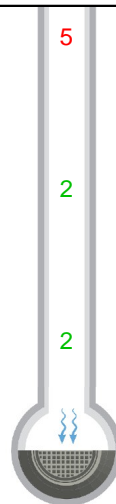
162.0 ft. Broken Pipe Soil Visible

162.0 ft. Deformed Flexible Bulging Round

177.3 ft. Deposits Attached Encrustation - S02

187.0 ft. Access Point Manhole

187.0 ft. Deposits Attached Encrustation - F02



MH18776

MH18776

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commision CCTV WE 11-16-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TT-MH-2121	TT-MH-9621	TT-MH-9621_TT-MH-2121	11/14/2018	Market Square	Vitrified Clay Pipe	8	150	17

Pipe Size: 8

Total Ln.: 150

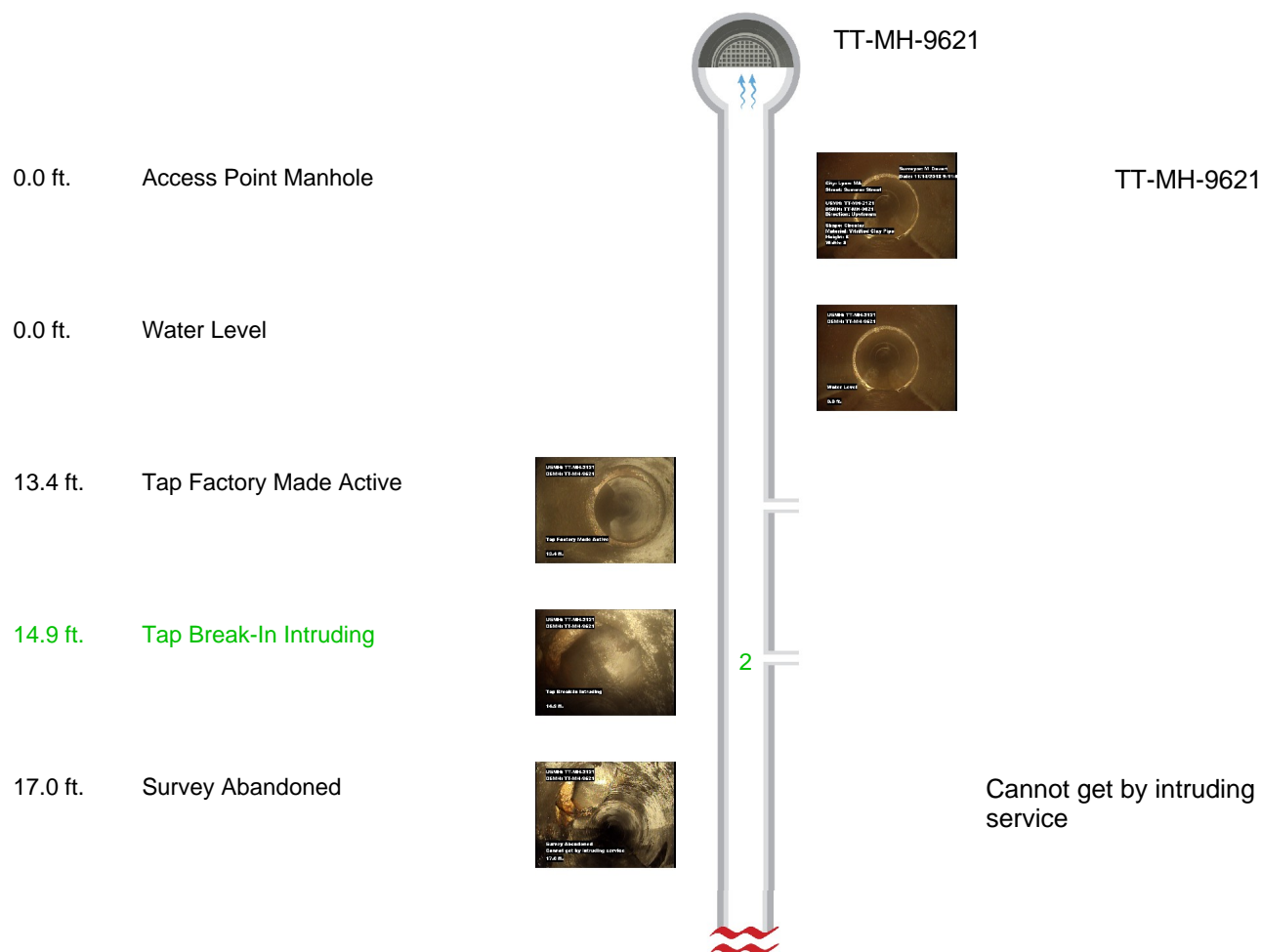
Inspected Ln.: 17

Project Total Ln.: 150.0

Project Inspected Ln.: 17.0

Defect Listing Plot with Images

Pipe Segment Refere... TT-MH-9621_TT-MH-21...		City Lynn- MA	Street Market Square	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH TT-MH-2121		Total Length 150	Year Laid	Shape Circular		Location Details	
DS Manhole TT-MH-9621		Length surveyed 17	Year Renewed	Height 8	Width 8	Pipe Joint...	
SPR	N/A	MPR	2	PO Number		Customer Stantec	
SPRI	N/A	MPRI	2	Work Order		Purpose Maintenance Related	
QSR	N/A	QMR	2100				
OPR 2	Surveyed By M_Davert		Direction Upstream	Date 20181114		Media label 11-14-18	
OPRI 2	Certificate Number 07003881		Pre-Cleaning Jetting	Time 09:21		Weather Dry	
Date Cleaned 20181114				End Time 09:27		Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commision CCTV WE 11-16-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TT-MH-9621	MH-18921	TT-MH-9621_MH-18921 1	11/14/2018	Market Square	Vitrified Clay Pipe	8	142	142

Pipe Size: 8

Total Ln.: 142

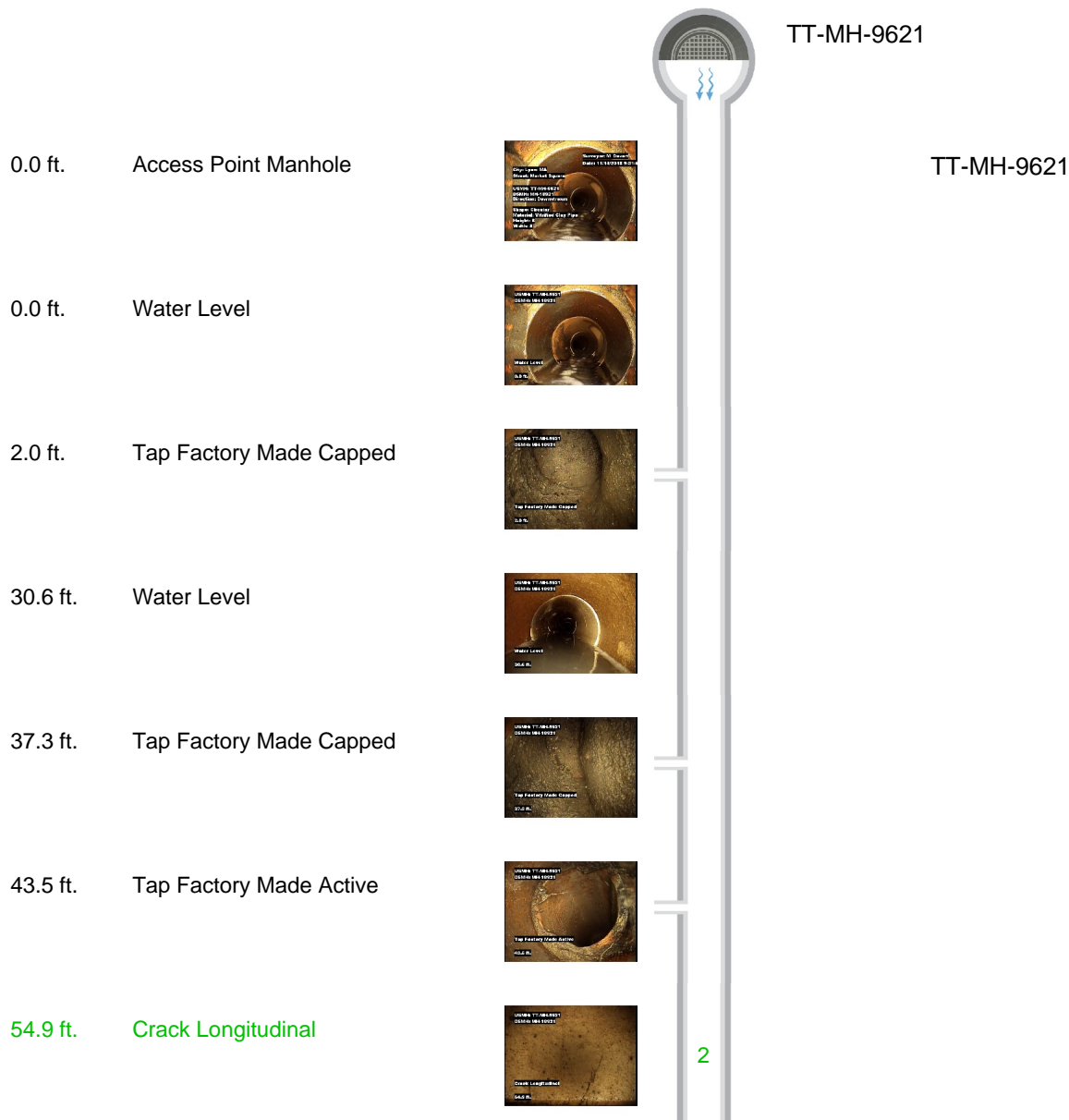
Inspected Ln.: 142

Project Total Ln.: 142.0

Project Inspected Ln.: 142.0

Defect Listing Plot with Images

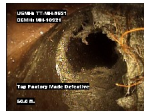
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH-9621_MH-18921	Lynn- MA	Market Square	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH-9621	142		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18921	142		8	8	
SPR 10	MPR 35	PO Number		Customer	
SPRI 3.3	MPRI 1.6			Stantec	
QSR 5131	QMR 3425	Work Order		Purpose	
				Maintenance Related	
OPR 45	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181114	11-14-18	
OPRI 1.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:33	Dry	
Date Cleaned			End Time	Additional Info	
20181114			09:53		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH-9621_MH-18921	Lynn- MA	Market Square	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH-9621	142		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18921	142		8	8	
SPR 10	MPR 35	PO Number		Customer	
SPRI 3.3	MPRI 1.6			Stantec	
QSR 5131	QMR 3425	Work Order		Purpose	
				Maintenance Related	
OPR 45	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181114	11-14-18	
OPRI 1.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:33	Dry	
Date Cleaned			End Time	Additional Info	
20181114			09:53		

60.0 ft. Tap Factory Made Defective



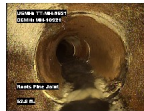
2

60.9 ft. Roots Fine Joint



1

62.8 ft. Roots Fine Joint



1

64.6 ft. Roots Fine Joint



1

67.0 ft. Roots Fine Joint



1

69.7 ft. Roots Fine Joint



1

75.4 ft. Roots Fine Joint



1

76.8 ft. Roots Fine Joint



1

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH-9621_MH-18921	Lynn- MA	Market Square	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH-9621	142		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18921	142		8	8	
SPR 10	MPR 35	PO Number		Customer	
SPRI 3.3	MPRI 1.6			Stantec	
QSR 5131	QMR 3425	Work Order		Purpose	
				Maintenance Related	
OPR 45	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181114	11-14-18	
OPRI 1.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:33	Dry	
Date Cleaned			End Time	Additional Info	
20181114			09:53		

78.9 ft. Roots Medium Lateral



3

80.8 ft. Tap Factory Made Defective



2

83.1 ft. Roots Medium Joint



3

87.1 ft. Roots Fine Joint



1

89.1 ft. Roots Fine Joint



1

91.3 ft. Roots Fine Joint



1

93.4 ft. Roots Fine Joint



1

101.2 ft. Tap Factory Made Defective



2

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH-9621_MH-18921	Lynn- MA	Market Square	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH-9621	142		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18921	142		8	8	
SPR 10	MPR 35	PO Number		Customer	
SPRI 3.3	MPRI 1.6			Stantec	
QSR 5131	QMR 3425	Work Order		Purpose	
				Maintenance Related	
OPR 45	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181114	11-14-18	
OPRI 1.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:33	Dry	
Date Cleaned			End Time	Additional Info	
20181114			09:53		

103.3 ft. Water Level



111.7 ft. Roots Fine Joint



1

113.8 ft. Roots Fine Joint



1

116.2 ft. Roots Medium Joint



3

116.2 ft. Infiltration Dripper



3

117.5 ft. Tap Factory Made Defective



2

121.8 ft. Tap Factory Made Defective



2

122.6 ft. Hole Void Visible

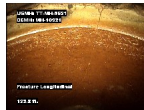


5

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH-9621_MH-18921	Lynn- MA	Market Square	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH-9621	142		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18921	142		8	8	
SPR 10	MPR 35	PO Number		Customer	
SPRI 3.3	MPRI 1.6			Stantec	
QSR 5131	QMR 3425	Work Order		Purpose	
				Maintenance Related	
OPR 45	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181114	11-14-18	
OPRI 1.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:33	Dry	
Date Cleaned			End Time	Additional Info	
20181114			09:53		

122.8 ft. Fracture Longitudinal



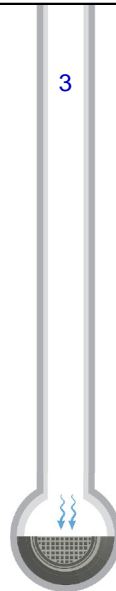
130.3 ft. Water Level



142.0 ft. Access Point Manhole



MH-18921



MH-18921



Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18746	MH-18751	MH-18746_MH-18751	12/20/2018	Neptune Street	Vitrified Clay Pipe	12	258	258

Pipe Size: 12

Total Ln.: 258

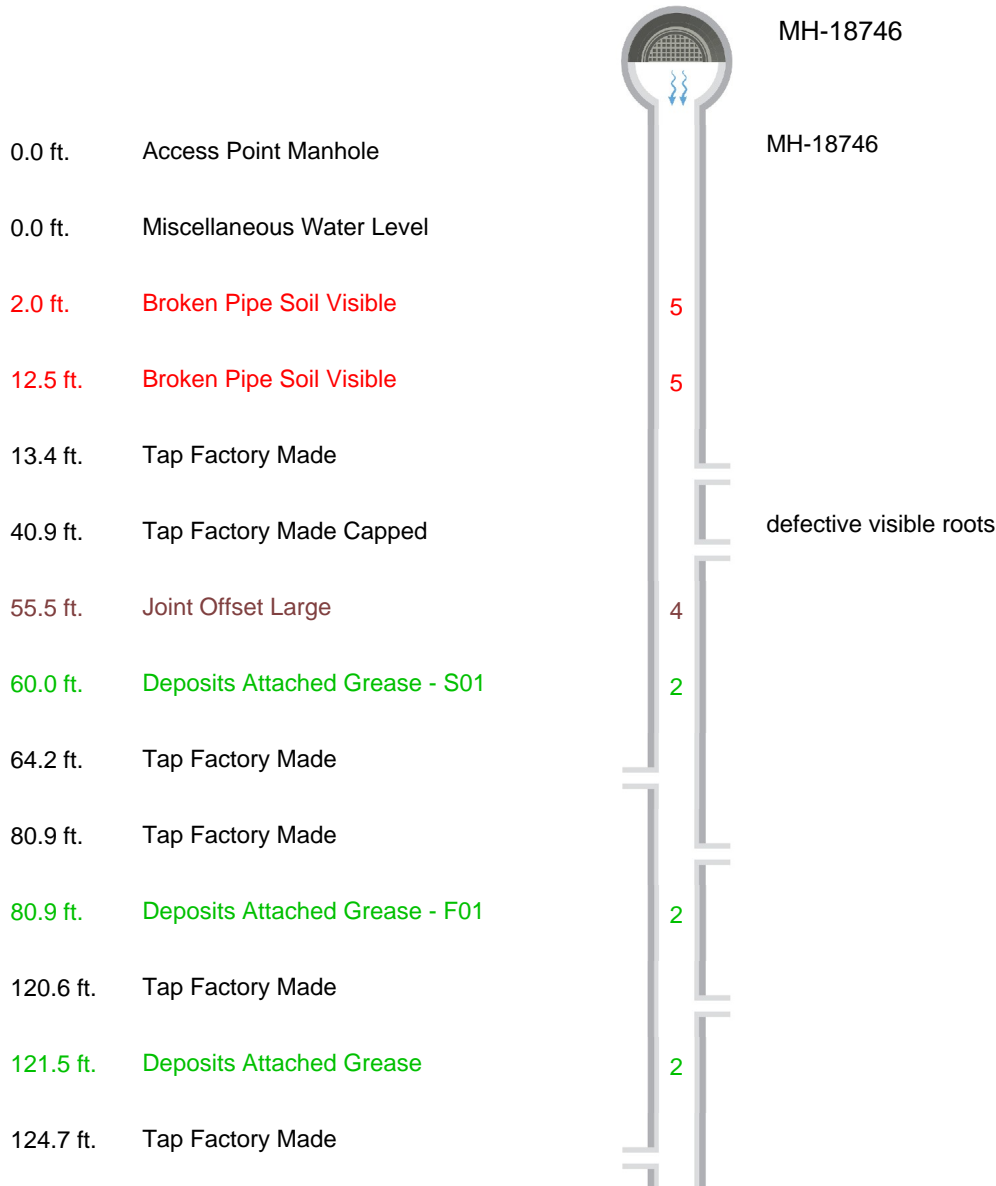
Inspected Ln.: 258

Project Total Ln.: 258.0

Project Inspected Ln.: 258.0

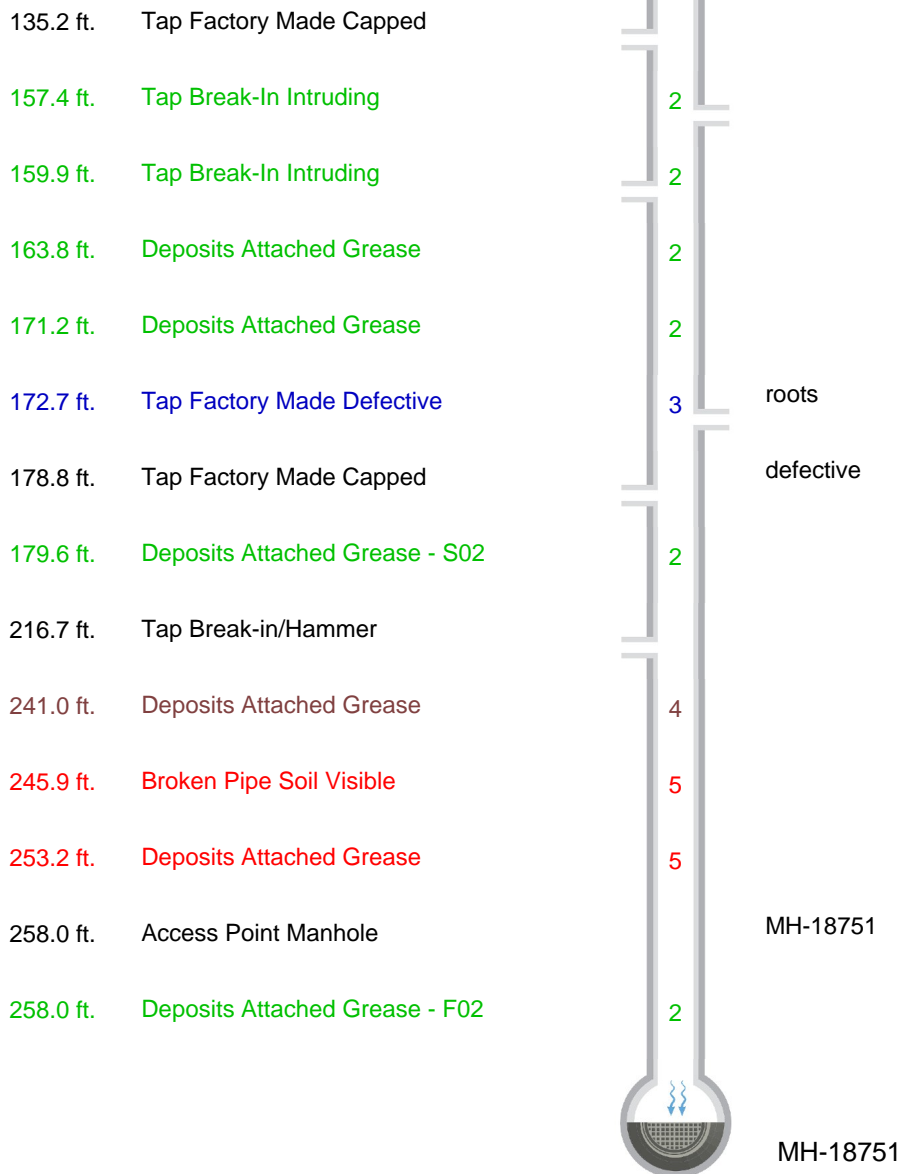
Defect Listing Plot

Pipe Segment Refere... MH-18746_MH-18751	City LYNN	Street Neptune Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18746	Total Length 258	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18751	Length surveyed 258	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 11:26	Weather Dry - No P...	
Date Cleaned 20181220			End Time 11:50	Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH-18746_MH-18751	City LYNN	Street Neptune Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18746	Total Length 258	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18751	Length surveyed 258	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 11:26	Weather Dry - No P...	
Date Cleaned 20181220			End Time 11:50	Additional Info	



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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18746	TTMH-3784	MH-18746_TTMH-3784	12/20/2018	Neptune Street	Vitrified Clay Pipe	12	0	218

Pipe Size: 12

Total Ln.: 0

Inspected Ln.: 218

Project Total Ln.: 0.0

Project Inspected Ln.: 218.0

Defect Listing Plot

Pipe Segment Refere... MH-18746_TTMH-3784	City LYNN	Street Neptune Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18746	Total Length	Year Constructed	Shape Circular	Location Details	
Downstream MH TTMH-3784	Length surveyed 218	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lowell	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 10:47	Weather Dry - No P...	
Date Cleaned 20181220			End Time 11:01	Additional Info	



TTMH-3784

MH-18746

0.0 ft. Access Point Manhole

0.0 ft. Miscellaneous Water Level

16.8 ft. Tap Factory Made

67.8 ft. Tap Factory Made

73.9 ft. Tap Factory Made Capped

86.2 ft. Tap Factory Made Capped

102.3 ft. Tap Factory Made Capped

120.7 ft. Tap Factory Made

132.7 ft. Tap Factory Made

134.7 ft. Tap Factory Made

142.8 ft. Tap Factory Made Capped

154.8 ft. Tap Break-In Intruding

157.0 ft. Tap Factory Made Capped

170.5 ft. Tap Break-In Intruding

Defect Listing Plot

Pipe Segment Refere... MH-18746_TTMH-3784	City LYNN	Street Neptune Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18746	Total Length	Year Constructed	Shape Circular	Location Details	
Downstream MH TTMH-3784	Length surveyed 218	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lowell	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 10:47	Weather Dry - No P...	
Date Cleaned 20181220			End Time 11:01	Additional Info	

181.3 ft. Tap Factory Made Capped

183.5 ft. Tap Factory Made

187.5 ft. Tap Factory Made

209.5 ft. Tap Break-in/Hammer

210.1 ft. Obstruction Wedged In The Joint

218.0 ft. Miscellaneous Survey Abandoned



2

Debri

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-30-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18716	MH-18711	MH-18716_MH-18711	11/29/2018	Neptune Street Court	Vitrified Clay Pipe	8	270	270

Pipe Size: 8

Total Ln.: 270

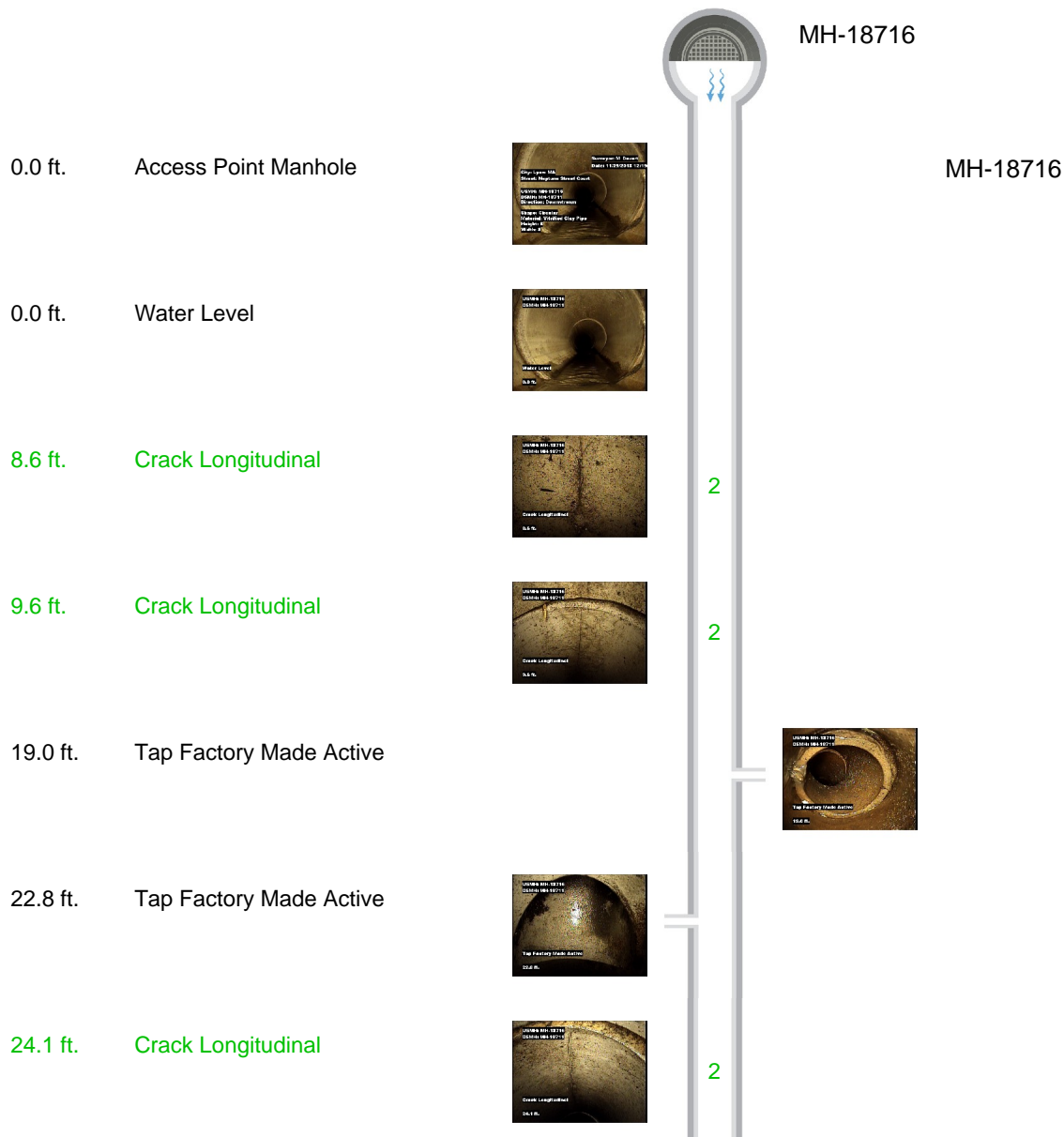
Inspected Ln.: 270

Project Total Ln.: 270.0

Project Inspected Ln.: 270.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18716_MH-18711	City Lynn- MA	Street Neptune Street Cour...	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18716	Total Length 270	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18711	Length surveyed 270	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 12	MPR 23	PO Number		Customer Stantec	
SPRI 2	MPRI 2.1	Work Order		Purpose Maintenance Related	
QSR 3124	QMR 312A				
OPR 35	Surveyed By M_Davert	Direction Downstream	Date 20181129	Media label 11-29-18	
OPRI 2.1	Certificate Number 07003881	Pre-Cleaning Heavy Cleaning	Time 12:20	Weather Dry	
Date Cleaned 20181129			End Time 12:46	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18716_MH-18711	City Lynn- MA	Street Neptune Street Cour...	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18716	Total Length 270	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18711	Length surveyed 270	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 12	MPR 23	PO Number		Customer Stantec	
SPRI 2	MPRI 2.1	Work Order		Purpose Maintenance Related	
QSR 3124	QMR 312A				
OPR 35	Surveyed By M_Davert	Direction Downstream	Date 20181129	Media label 11-29-18	
OPRI 2.1	Certificate Number 07003881	Pre-Cleaning Heavy Cleaning	Time 12:20	Weather Dry	
Date Cleaned 20181129			End Time 12:46	Additional Info	

42.6 ft. Fracture Longitudinal

3



47.0 ft. Tap Factory Made Active



57.9 ft. Tap Factory Made Active



64.2 ft. Tap Factory Made Active



64.8 ft. Infiltration Dripper

3



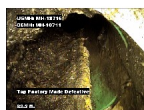
67.1 ft. Material Change

PVC

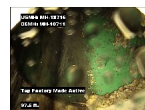


83.2 ft. Tap Factory Made Defective

2



97.5 ft. Tap Factory Made Active

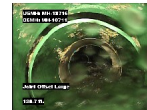


Defect Listing Plot with Images

Pipe Segment Refere... MH-18716_MH-18711	City Lynn- MA	Street Neptune Street Cour...	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18716	Total Length 270	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18711	Length surveyed 270	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 12	MPR 23	PO Number		Customer Stantec	
SPRI 2	MPRI 2.1	Work Order		Purpose Maintenance Related	
QSR 3124	QMR 312A				
OPR 35	Surveyed By M_Davert	Direction Downstream	Date 20181129	Media label 11-29-18	
OPRI 2.1	Certificate Number 07003881	Pre-Cleaning Heavy Cleaning	Time 12:20	Weather Dry	
Date Cleaned 20181129			End Time 12:46	Additional Info	

130.7 ft. Joint Offset Large

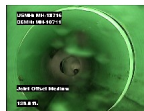
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132.2 ft. Tap Factory Made Active



139.0 ft. Joint Offset Medium



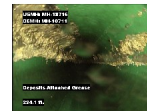
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158.9 ft. Tap Factory Made Active



224.1 ft. Deposits Attached Grease - S01

2



245.3 ft. Material Change



VCP

270.0 ft. Deposits Attached Grease - F01

2



270.0 ft. Access Point Manhole



MH-18711

Defect Listing Plot with Images

Pipe Segment Refere... MH-18716_MH-18711	City Lynn- MA	Street Neptune Street Cour...	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18716	Total Length 270	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18711	Length surveyed 270	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 12	MPR 23	PO Number		Customer Stantec	
SPRI 2	MPRI 2.1	Work Order		Purpose Maintenance Related	
QSR 3124	QMR 312A				
OPR 35	Surveyed By M_Davert	Direction Downstream	Date 20181129	Media label 11-29-18	
OPRI 2.1	Certificate Number 07003881	Pre-Cleaning Heavy Cleaning	Time 12:20	Weather Dry	
Date Cleaned 20181129			End Time 12:46	Additional Info	



MH-18711

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-25521	MH-18716	MH-25521_MH-18716	10/18/2018	Neptune Street Court	Vitrified Clay Pipe	8	0	49

Pipe Size: 8

Total Ln.: 0

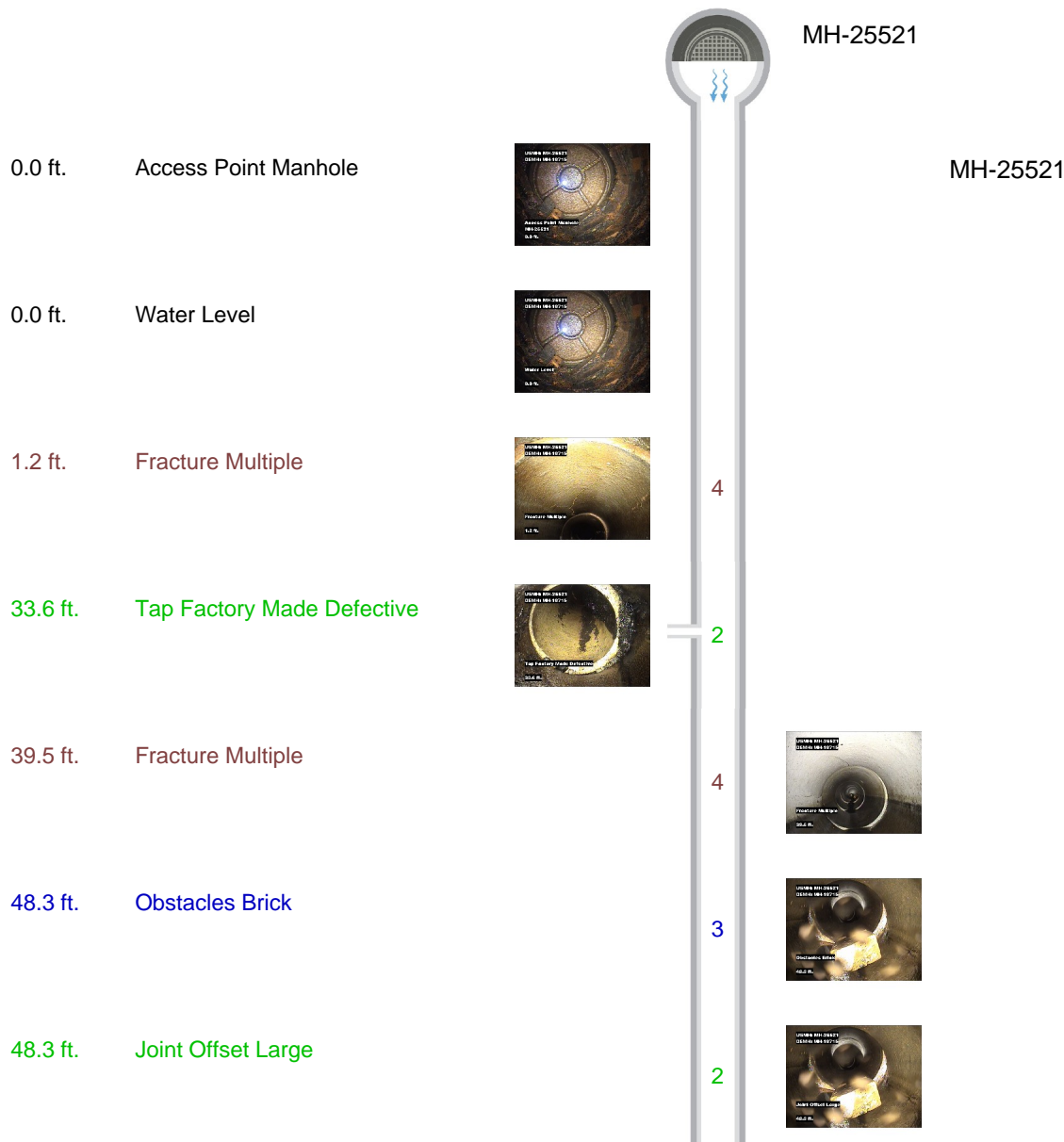
Inspected Ln.: 49

Project Total Ln.: 0.0

Project Inspected Ln.: 49.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-25521_MH-18716	City Lynn- Ma	Street Neptune Street Cour...	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-25521	Total Length	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18716	Length surveyed 49	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 10	MPR 5	PO Number		Customer Stantec	
SPRI 3.3	MPRI 2.5	Work Order		Purpose Maintenance Related	
QSR 4221	QMR 3121				
OPR 15	Surveyed By Chris_M	Direction Downstream	Date 20181018	Media label 10-18-18	
OPRI 3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 11:54	Weather Dry	
Date Cleaned 20181018			End Time 12:11	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-25521_MH-18716	City Lynn- Ma	Street Neptune Street Cour...	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH MH-25521	Total Length	Year Laid	Shape Circular		Location Details	
DS Manhole MH-18716	Length surveyed 49	Year Renewed	Height 8	Width 8	Pipe Joint...	
SPR 10	MPR 5	PO Number		Customer Stantec		
SPRI 3.3	MPRI 2.5	Work Order		Purpose Maintenance Related		
QSR 4221	QMR 3121					
OPR 15	Surveyed By Chris_M	Direction Downstream	Date 20181018		Media label 10-18-18	
OPRI 3	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 11:54		Weather Dry	
Date Cleaned 20181018			End Time 12:11		Additional Info	

49.0 ft. Survey Abandoned



Brick Stuck on Offset Joint

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TT-CB2146	TT-MH4621	TT-MH4621_TT-CB2146	10/18/2018	Neptune Street Court	Vitrified Clay Pipe	8	3	3

Pipe Size: 8

Total Ln.: 3

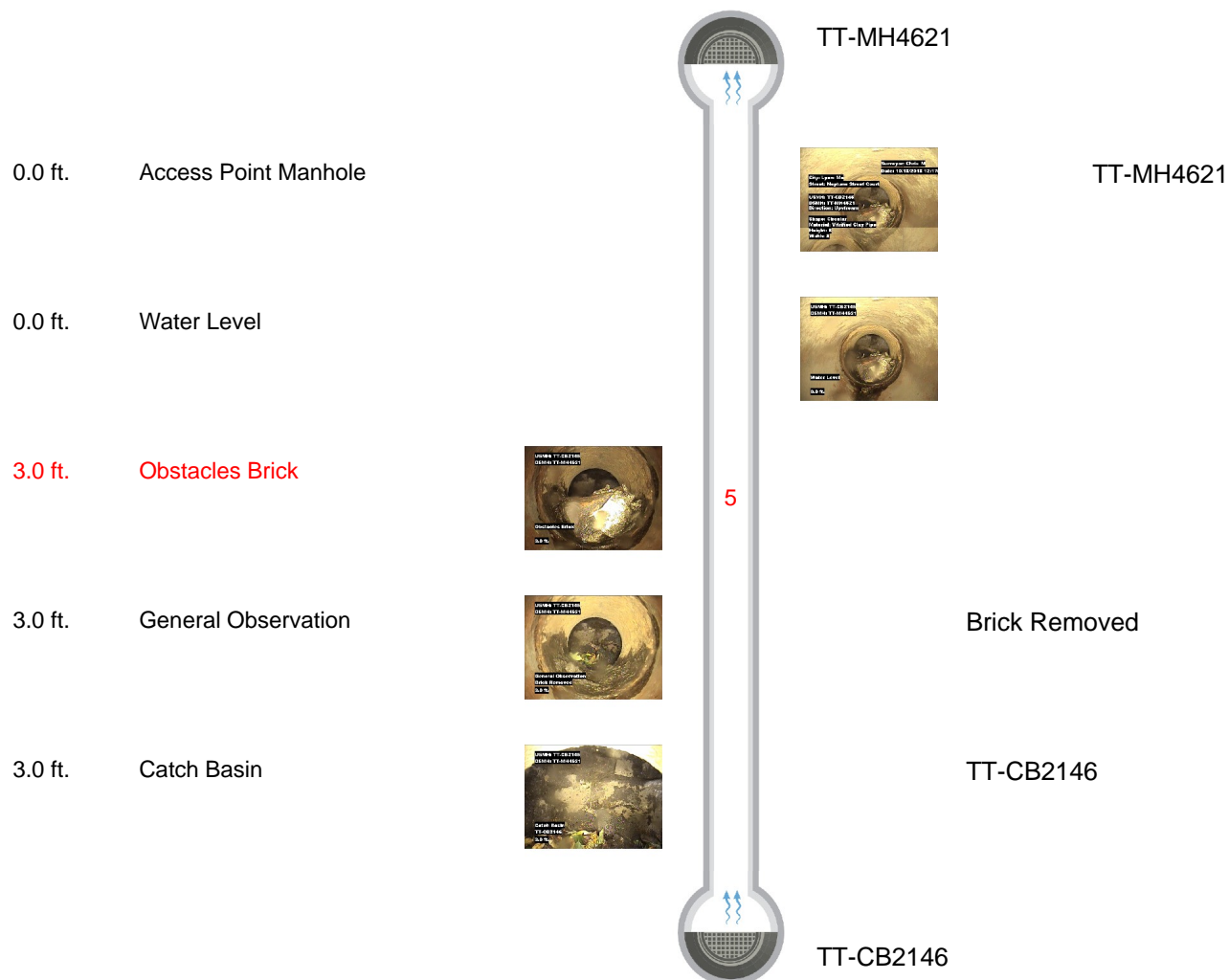
Inspected Ln.: 3

Project Total Ln.: 3.0

Project Inspected Ln.: 3.0

Defect Listing Plot with Images

Pipe Segment Refere... TT-MH4621_TT-CB2146		City Lynn- Ma	Street Neptune Street Cour...	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH TT-CB2146		Total Length 3	Year Laid	Shape Circular		Location Details	
DS Manhole TT-MH4621		Length surveyed 3	Year Renewed	Height 8	Width 8	Pipe Joint...	
SPR	N/A	MPR	5	PO Number		Customer	
SPRI	N/A	MPRI	5	Work Order		Stantec	
QSR	N/A	QMR	5100			Purpose	
				Maintenance Related			
OPR 5		Surveyed By Chris_M	Direction Upstream	Date 20181018		Media label 10-18-18	
OPRI 5		Certificate Number 10-08-7625	Pre-Cleaning No Pre-Cleaning	Time 12:18		Weather Dry	
Date Cleaned				End Time 12:22		Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TT-MH4621	MH-25521	TT-MH4621_MH-25521	10/18/2018	Neptune Street Court	Vitrified Clay Pipe	8	100	100

Pipe Size: 8

Total Ln.: 100

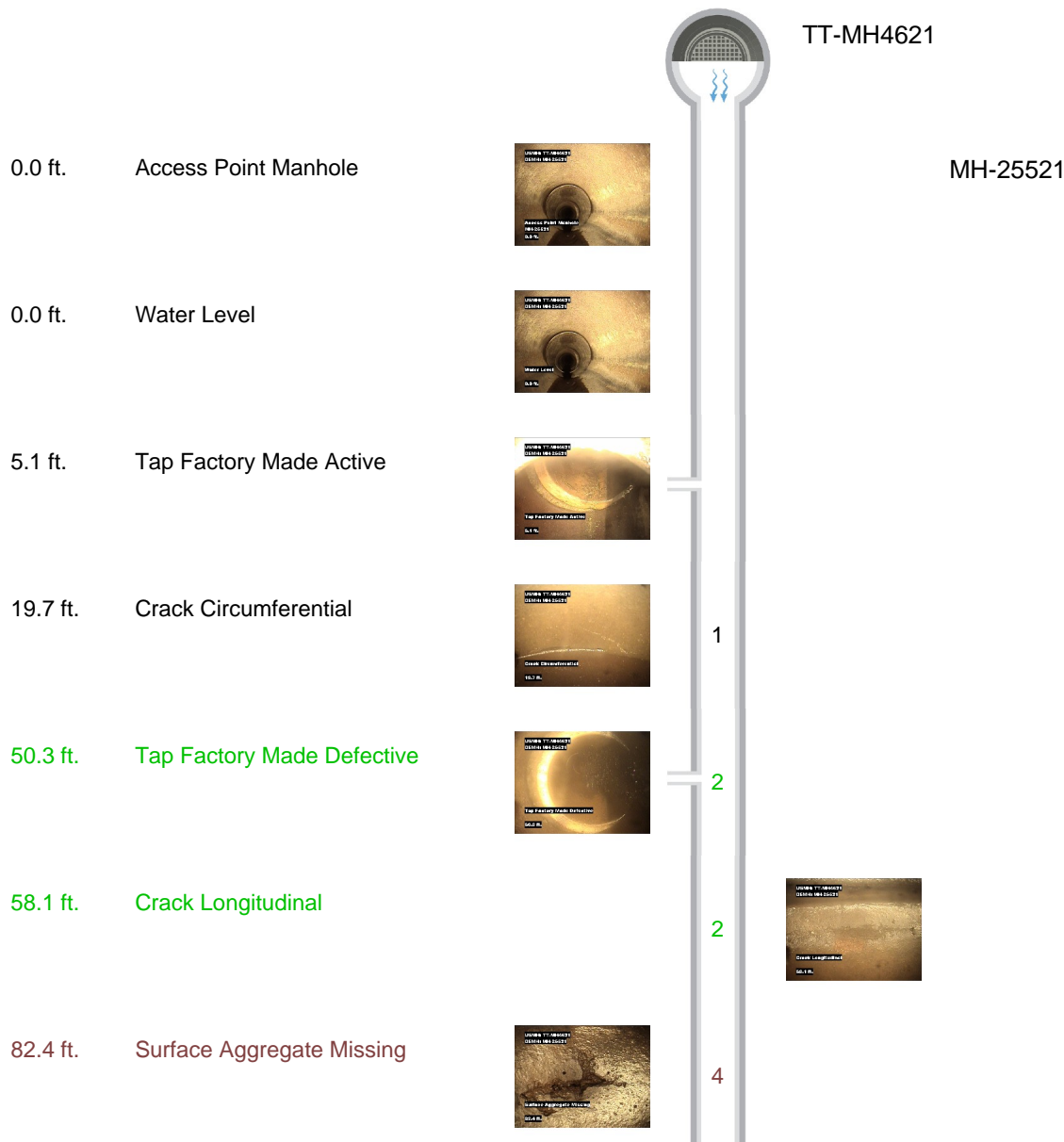
Inspected Ln.: 100

Project Total Ln.: 100.0

Project Inspected Ln.: 100.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH4621_MH-25521	Lynn- Ma	Neptune Street Cour...	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH4621	100		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-25521	100		8	8	
SPR 7	MPR 4	PO Number		Customer	
SPRI 2.3	MPRI 2			Stantec	
QSR 4121	QMR 2200	Work Order		Purpose	
				Maintenance Related	
OPR 11	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181018	10-18-18	
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	11:44	Dry	
Date Cleaned			End Time	Additional Info	
20181018			11:52		



Defect Listing Plot with Images

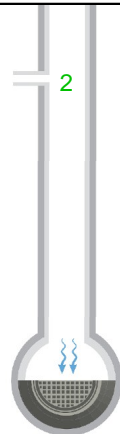
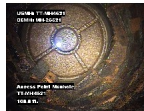
Pipe Segment Refere... TT-MH4621_MH-25521	City Lynn- Ma	Street Neptune Street Cour...	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH TT-MH4621	Total Length 100	Year Laid	Shape Circular	Location Details	
DS Manhole MH-25521	Length surveyed 100	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 7	MPR 4	PO Number		Customer Stantec	
SPRI 2.3	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 4121	QMR 2200				
OPR 11	Surveyed By Chris_M	Direction Downstream	Date 20181018	Media label 10-18-18	
OPRI 2.2	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 11:44	Weather Dry	
Date Cleaned 20181018			End Time 11:52	Additional Info	

95.1 ft. Tap Factory Made Defective



100.0 ft. Access Point Manhole



MH-25521

TT-MH4621

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18681	MH-18831	MH-18681_MH18831	12/20/2018	South Street	Vitrified Clay Pipe	12	172	172

Pipe Size: 12

Total Ln.: 172

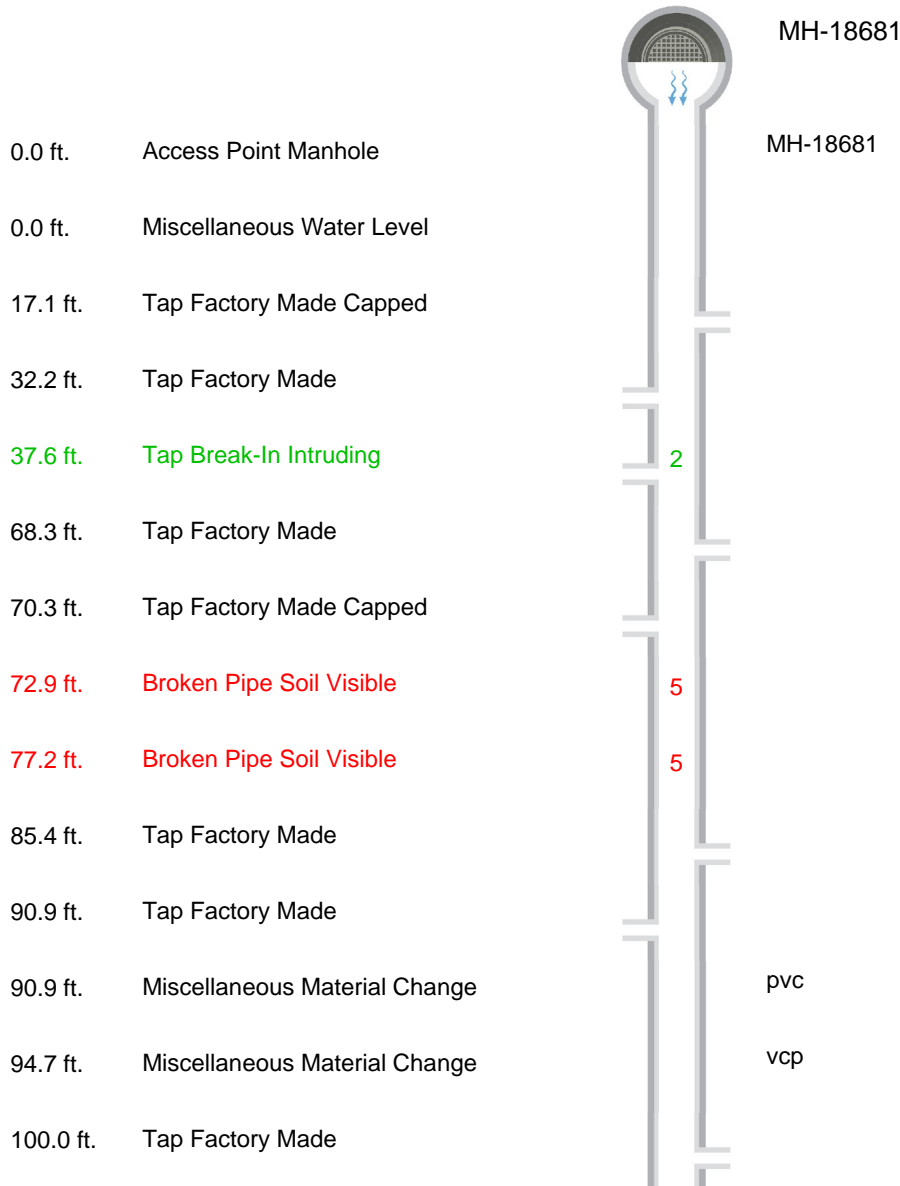
Inspected Ln.: 172

Project Total Ln.: 172.0

Project Inspected Ln.: 172.0

Defect Listing Plot

Pipe Segment Refere... MH-18681_MH18831	City LYNN	Street South Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18681	Total Length 172	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18831	Length surveyed 172	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220	Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 13:26	Weather Dry - No P...	
Date Cleaned 20181220			End Time 13:44	Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH-18681_MH18831	City LYNN	Street South Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18681	Total Length 172	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18831	Length surveyed 172	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220	Maintenance Related	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 13:26	Media label 12-20-18	Weather Dry - No P...
Date Cleaned 20181220			End Time 13:44	Additional Info	

165.9 ft. Miscellaneous Material Change

pvc

172.0 ft. Access Point Manhole

MH-18831



MH-18831

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18711	MH-18751	MH-18711_MH-18751	12/27/2018	South Street	PolyVinyl Chloride	12	100	100

Pipe Size: 12

Total Ln.: 100

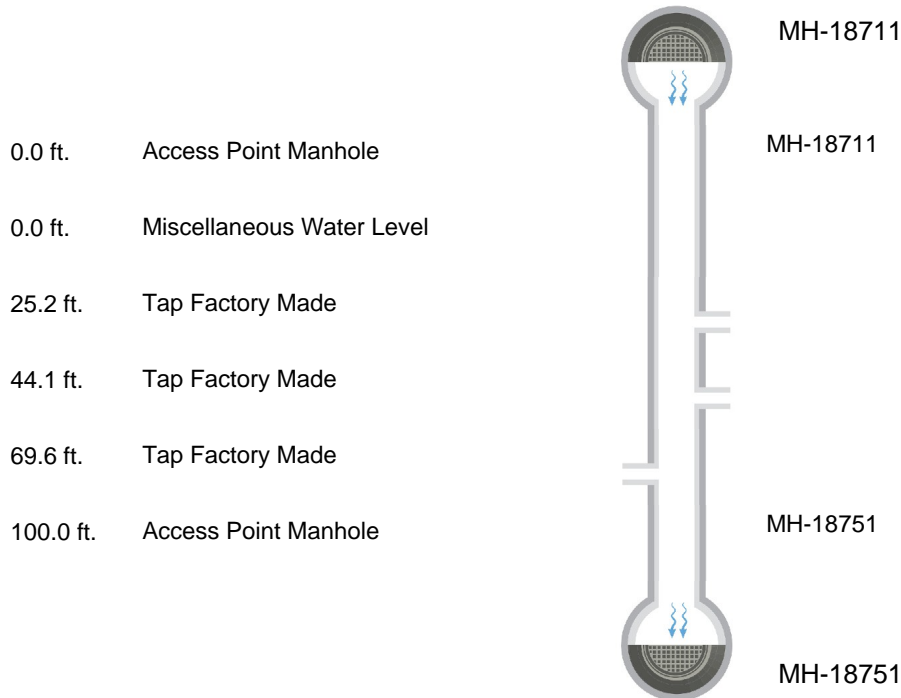
Inspected Ln.: 100

Project Total Ln.: 100.0

Project Inspected Ln.: 100.0

Defect Listing Plot

Pipe Segment Refere... MH-18711_MH-18751	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18711	Total Length 100	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18751	Length surveyed 100	Year Renewed	Height 12	Width 12	Pipe Joint... 13	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 12:22		Weather Dry - No P...	
Date Cleaned 20181227			End Time 12:43		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18751	TTMH-8788	MH18751_TTMH-8788	12/27/2018	South Street	PolyVinyl Chloride	18	41	41

Pipe Size: 18

Total Ln.: 41

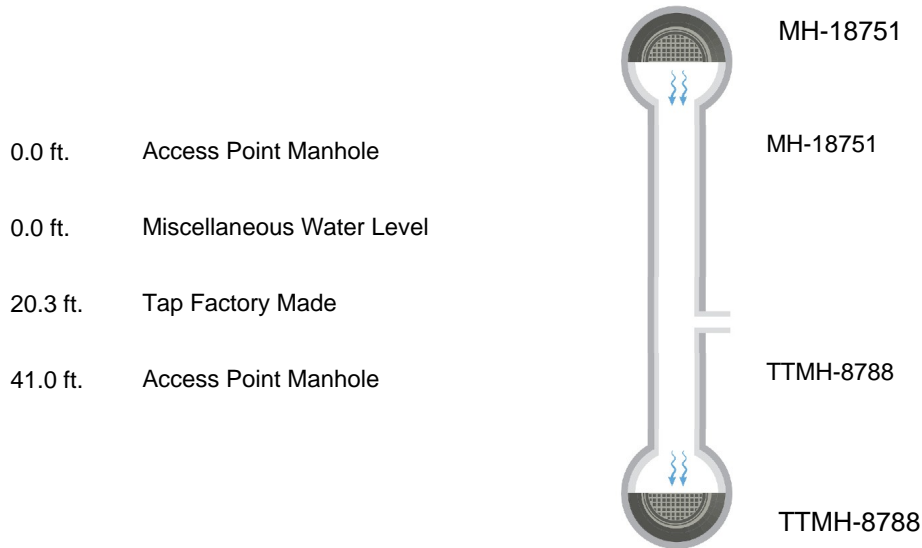
Inspected Ln.: 41

Project Total Ln.: 41.0

Project Inspected Ln.: 41.0

Defect Listing Plot

Pipe Segment Refere... MH18751_TTMH-8788	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18751	Total Length 41	Year Constructed	Shape Circular		Location Details	
Downstream MH TTMH-8788	Length surveyed 41	Year Renewed	Height 18	Width 18	Pipe Joint... 13	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 13:39		Weather Dry - No P...	
Date Cleaned 20181227			End Time 13:41		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18796	MH-18711	MH-18796_MH-18711	12/27/2018	South Street	PolyVinyl Chloride	12	166	166

Pipe Size: 12

Total Ln.: 166

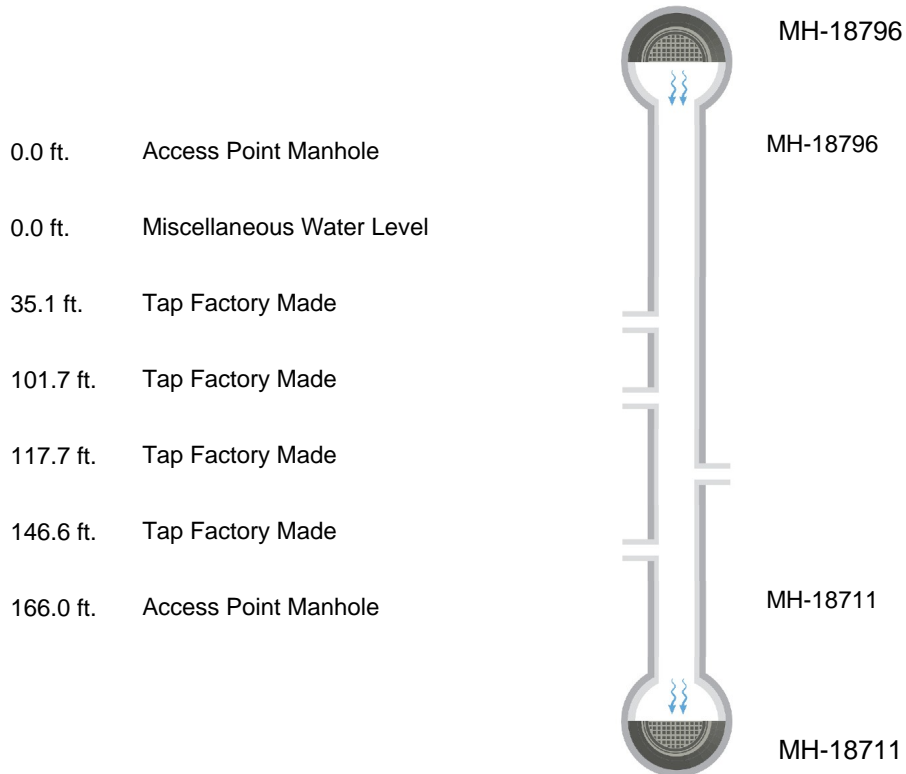
Inspected Ln.: 166

Project Total Ln.: 166.0

Project Inspected Ln.: 166.0

Defect Listing Plot

Pipe Segment Refere... MH-18796_MH-18711	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18796	Total Length 166	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18711	Length surveyed 166	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 12:01		Weather Dry - No P...	
Date Cleaned 20181227			End Time 12:18		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18821	TTMH-8826	MH-18821_TTMH-8826	12/27/2018	South Street	PolyVinyl Chloride	18	218	218

Pipe Size: 18

Total Ln.: 218

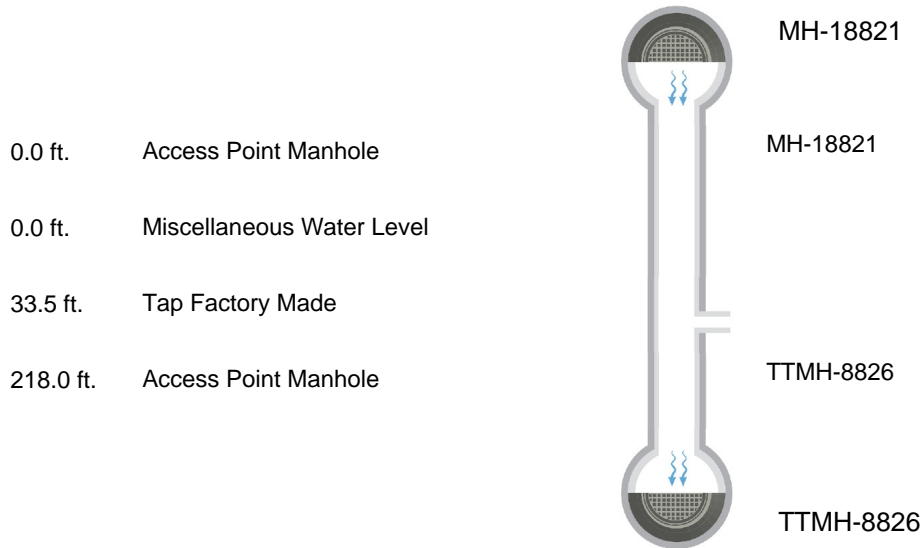
Inspected Ln.: 218

Project Total Ln.: 218.0

Project Inspected Ln.: 218.0

Defect Listing Plot

Pipe Segment Refere... MH-18821_TTMH-8826	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18821	Total Length 218	Year Constructed	Shape Circular		Location Details	
Downsstream MH TTMH-8826	Length surveyed 218	Year Renewed	Height 18	Width 18	Pipe Joint... 13	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 13:53		Weather Dry - No P...	
Date Cleaned 20181227			End Time 14:01		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18831	TTMH-3196	TTMH-3196_MH-18831 REV	12/27/2018	South Street	PolyVinyl Chloride	12	252	205

Pipe Size: 12

Total Ln.: 252

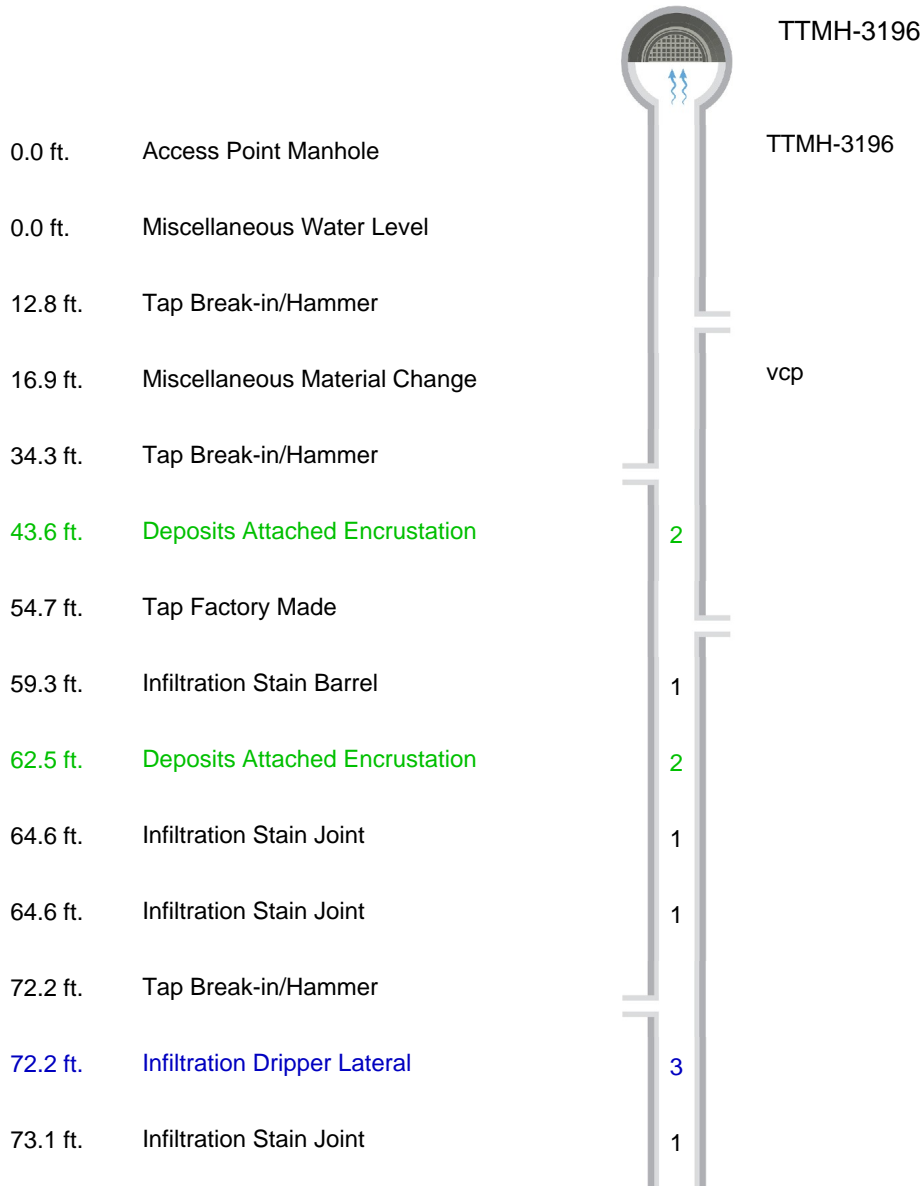
Inspected Ln.: 205

Project Total Ln.: 252.0

Project Inspected Ln.: 205.0

Defect Listing Plot

Pipe Segment Refere... TTMH-3196_MH-18831 ...	City Lynn	Street South Street	Material PolyVinyl Chloride	Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18831	Total Length 252	Year Constructed	Shape Circular	Location Details	
Downstream MH TTMH-3196	Length surveyed 205	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181227	Maintenance Related	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 11:19	Media label 12-27-18	Weather Dry - No P...
Date Cleaned 20181227			End Time 11:34	Additional Info	



Defect Listing Plot

Pipe Segment Refere... TTMH-3196_MH-18831 ...	City Lynn	Street South Street	Material PolyVinyl Chloride	Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18831	Total Length 252	Year Constructed	Shape Circular	Location Details	
Downstream MH TTMH-3196	Length surveyed 205	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181227	Maintenance Related	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 11:19	Media label 12-27-18	Weather Dry - No P...
Date Cleaned 20181227			End Time 11:34	Additional Info	

79.1 ft.	Infiltration Stain Joint - S01	1	
86.6 ft.	Tap Factory Made Capped		defection infiltration runner
99.1 ft.	Tap Factory Made		
112.2 ft.	Miscellaneous Material Change		pvc
124.9 ft.	Tap Factory Made		
127.4 ft.	Miscellaneous Material Change		vcp
142.5 ft.	Tap Break-in/Hammer		
145.1 ft.	Tap Factory Made Capped		
154.3 ft.	Broken Pipe Soil Visible	5	
154.4 ft.	Infiltration Runner Joint	4	
166.9 ft.	Broken Pipe Soil Visible	5	
174.4 ft.	Tap Factory Made Capped		looks collapsed
178.5 ft.	Tap Break-in/Hammer		
188.9 ft.	Tap Factory Made Capped		
205.0 ft.	Miscellaneous Survey Abandoned		end of inspection
205.0 ft.	Infiltration Stain Joint - F01	1	

Defect Listing Plot

Pipe Segment Refere... TTMH-3196_MH-18831 ...	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18831	Total Length 252	Year Constructed	Shape Circular		Location Details	
Downstream MH TTMH-3196	Length surveyed 205	Year Renewed	Height 12	Width 12	Pipe Joint... 3	

SPR	MPR	PO Number		Customer	
SPRI	MPRI			City of Lynn	
QSR	QMR	Work Order Number		Purpose	
				Maintenance Related	
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181227	Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 11:19	Weather Dry - No P...	
Date Cleaned 20181227			End Time 11:34	Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18831	TTMH-3196	MH18831_TTMH-3196	12/27/2018	South Street	PolyVinyl Chloride	12	0	47

Pipe Size: 12

Total Ln.: 0

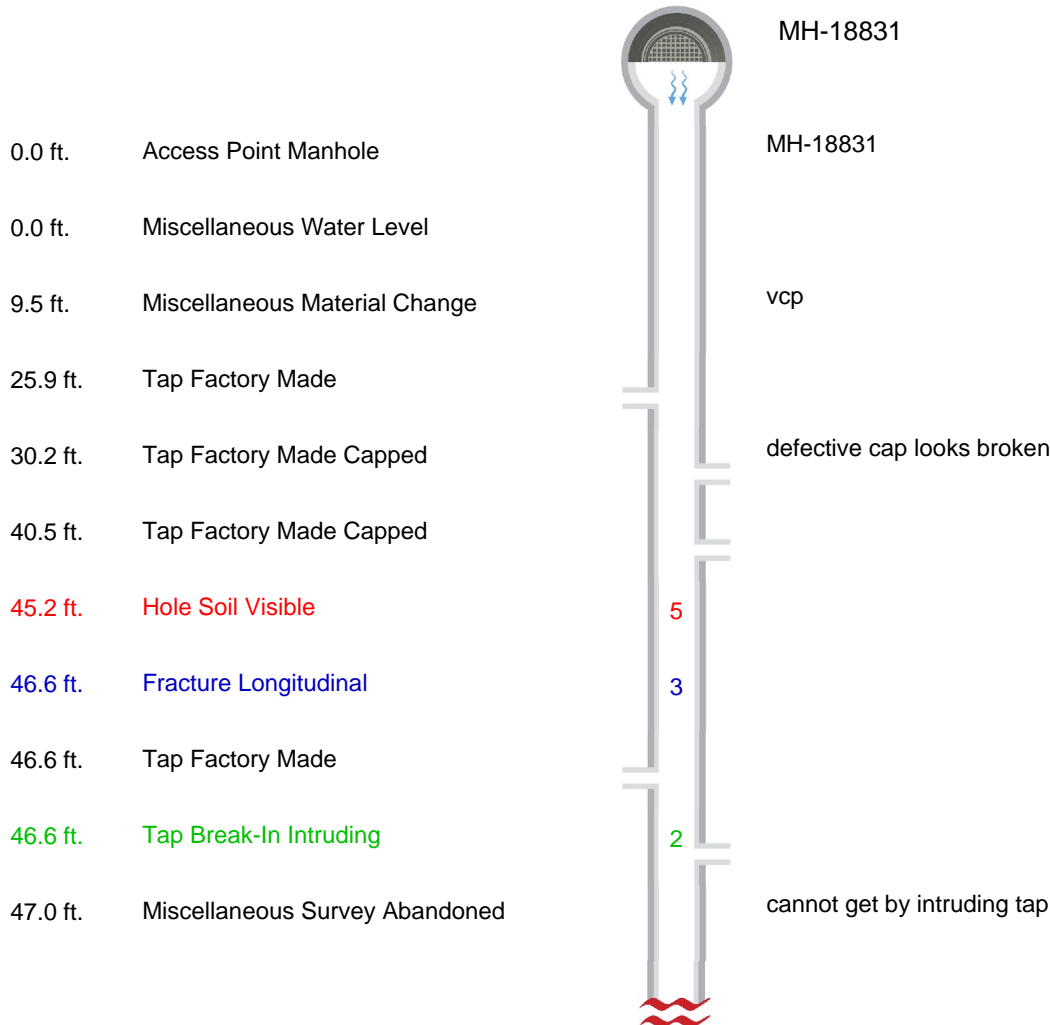
Inspected Ln.: 47

Project Total Ln.: 0.0

Project Inspected Ln.: 47.0

Defect Listing Plot

Pipe Segment Refere... MH18831_TTMH-3196	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18831	Total Length N/A	Year Constructed	Shape Circular		Location Details	
Downstream MH TTMH-3196	Length surveyed 47	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 10:53		Weather Dry - No P...	
Date Cleaned 20181227			End Time 10:59		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18836	TTMH-3681	TTMH-3681_MH-18836	12/27/2018	South Street	Vitrified Clay Pipe	12	0	9

Pipe Size: 12

Total Ln.: 0

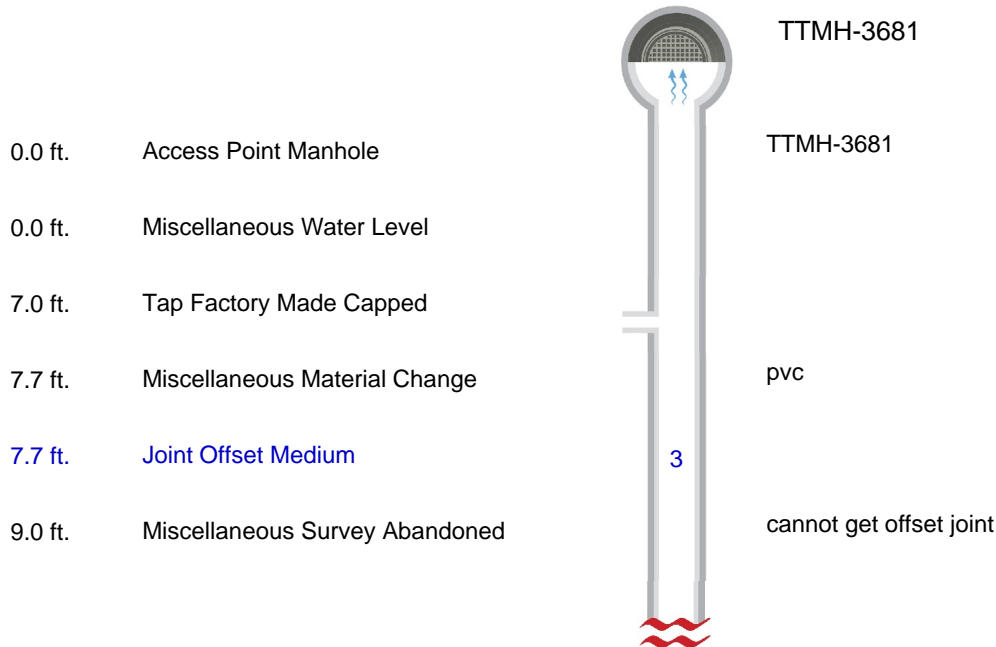
Inspected Ln.: 9

Project Total Ln.: 0.0

Project Inspected Ln.: 9.0

Defect Listing Plot

Pipe Segment Refere... TTMH-3681_MH-18836	City Lynn	Street South Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18836	Total Length	Year Constructed	Shape Circular	Location Details	
Downstream MH TTMH-3681	Length surveyed 9	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181227	Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 07:35	Weather Dry - No P...	
Date Cleaned 20181221			End Time 07:38	Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-23-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18841	MH-18836	MH-18841_MH-18836	11/19/2018	South Street	PolyVinyl Chloride	12	0	3

Pipe Size: 12

Total Ln.: 0

Inspected Ln.: 3

Project Total Ln.: 0.0

Project Inspected Ln.: 3.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18841_MH-18836	Lynn- MA	South Street	PolyVinyl Chloride	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18841			Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18836	3		12	12	
SPR	N/A	MPR	N/A	PO Number	
SPRI	N/A	MPRI	N/A	Customer	
QSR	N/A	QMR	N/A	Work Order	
OPR	N/A	OPRI	N/A	Purpose	
OPRI	N/A	OPRI	N/A	Maintenance Related	
OPR	N/A	OPRI	N/A	Media label	
OPRI	N/A	OPRI	N/A	Weather	
OPRI	N/A	OPRI	N/A	Light Rain	
OPRI	N/A	OPRI	N/A	Additional Info	
OPRI	N/A	OPRI	N/A	End Time	
OPRI	N/A	OPRI	N/A	08:35	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TTMH-3196	MH-18796	TTMH-3196_MH-18796	12/27/2018	South Street	PolyVinyl Chloride	12	271	271

Pipe Size: 12

Total Ln.: 271

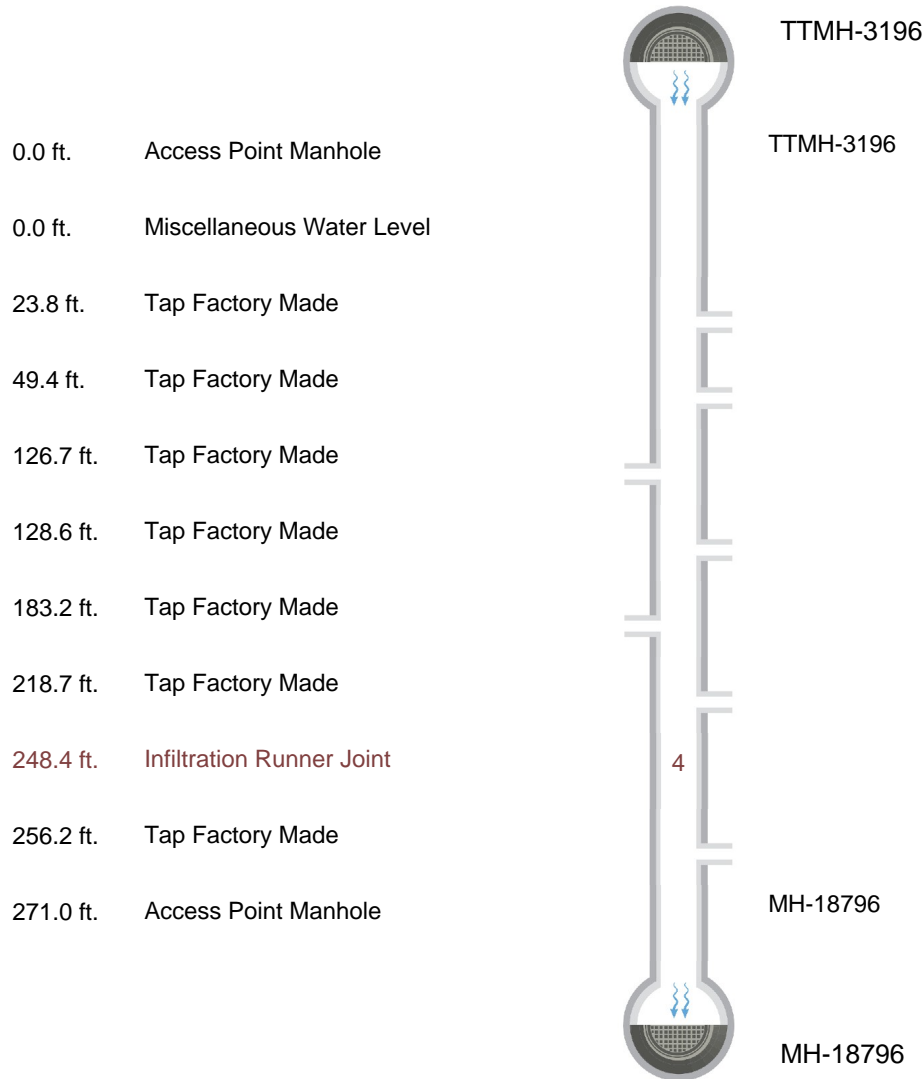
Inspected Ln.: 271

Project Total Ln.: 271.0

Project Inspected Ln.: 271.0

Defect Listing Plot

Pipe Segment Refere... TTMH-3196_MH-18796	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH TTMH-3196	Total Length 271	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18796	Length surveyed 271	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 11:42		Weather Dry - No P...	
Date Cleaned 20181227			End Time 11:57		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TTMH-3681	MH-18681	TTMH-3681_MH-18681	12/20/2018	South Street	Vitrified Clay Pipe	12	90	90

Pipe Size: 12

Total Ln.: 90

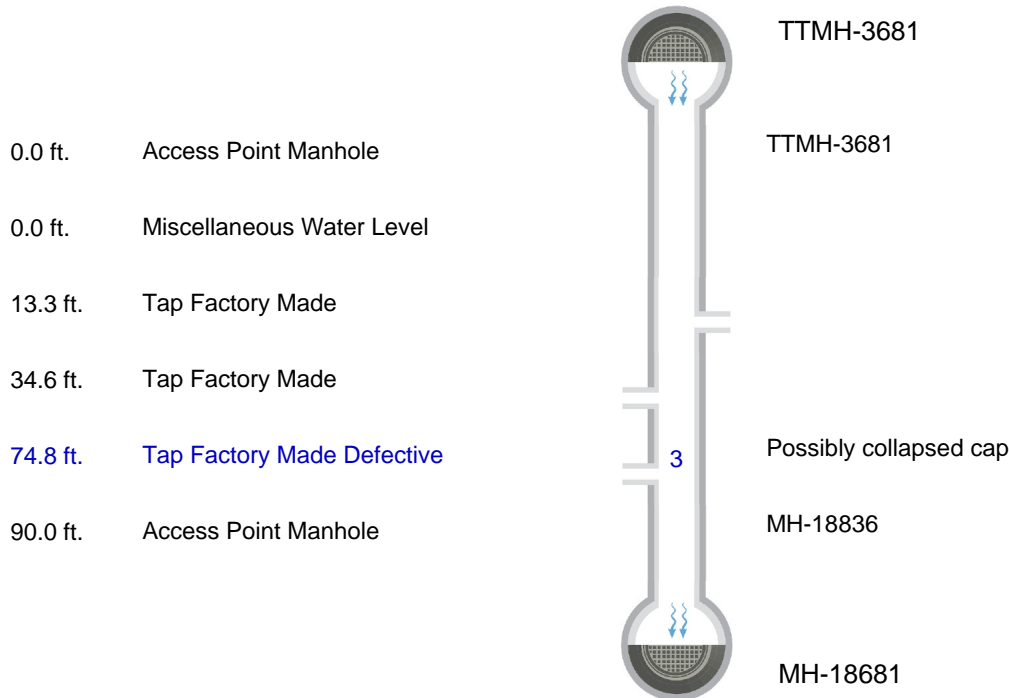
Inspected Ln.: 90

Project Total Ln.: 90.0

Project Inspected Ln.: 90.0

Defect Listing Plot

Pipe Segment Refere... TTMH-3681_MH-18681	City LYNN	Street South Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH TTMH-3681	Total Length 90	Year Constructed	Shape Circular		Location Details Video displays inco...	
Downstream MH MH-18681	Length surveyed 90	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181220		Media label 12-20-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 13:02		Weather Dry - No P...	
Date Cleaned 20181220			End Time 13:08		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TTMH-8788	MH-18821	TTMH-8788_MH-18821	12/27/2018	South Street	PolyVinyl Chloride	18	229	229

Pipe Size: 18

Total Ln.: 229

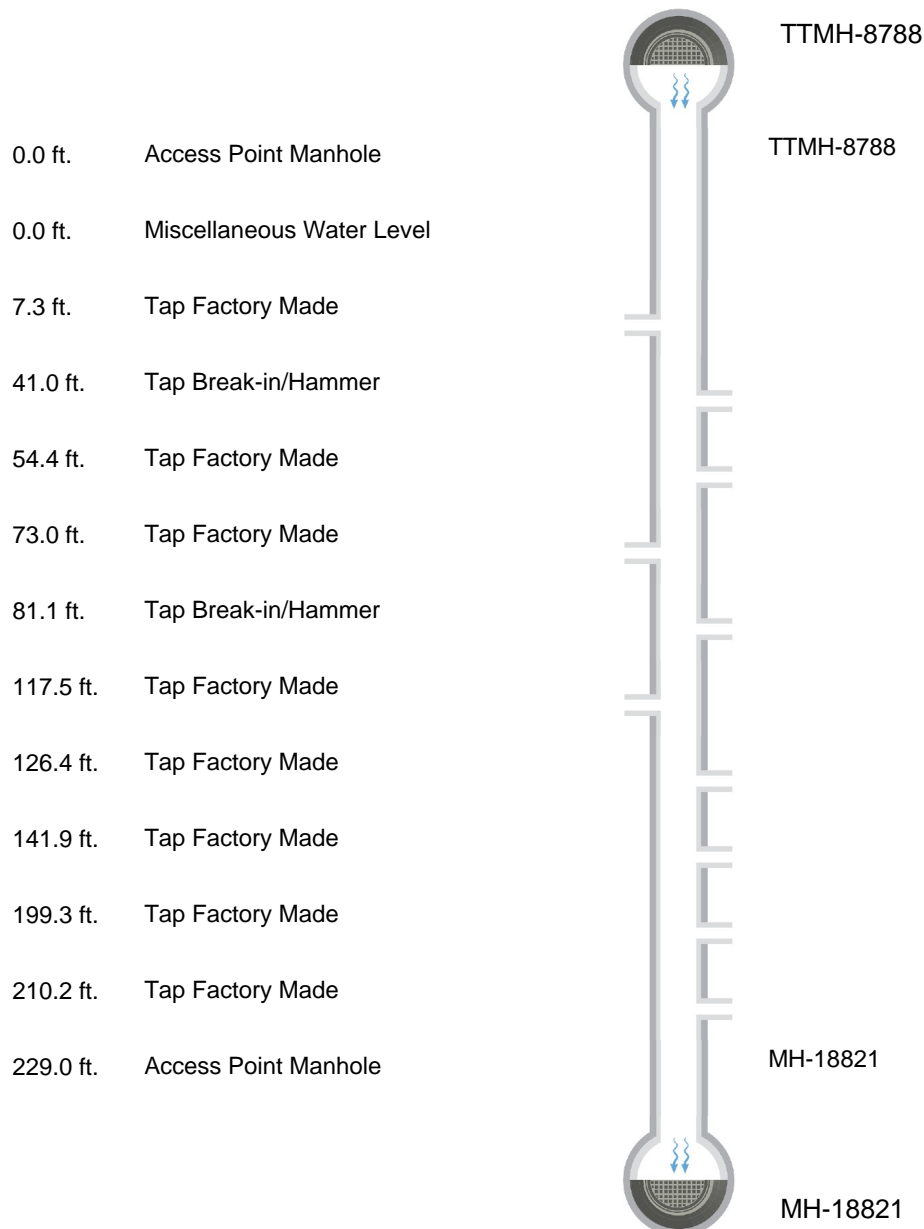
Inspected Ln.: 229

Project Total Ln.: 229.0

Project Inspected Ln.: 229.0

Defect Listing Plot

Pipe Segment Refere... TTMH-8788_MH-18821	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH TTMH-8788	Total Length 229	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18821	Length surveyed 229	Year Renewed	Height 18	Width 18	Pipe Joint... 13	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 13:43		Weather Dry - No P...	
Date Cleaned 20181227			End Time 13:51		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TTMH-8826	MH-18826	TTMH-8826_MH-18826	12/27/2018	South Street	PolyVinyl Chloride	18	20	20

Pipe Size: 18

Total Ln.: 20

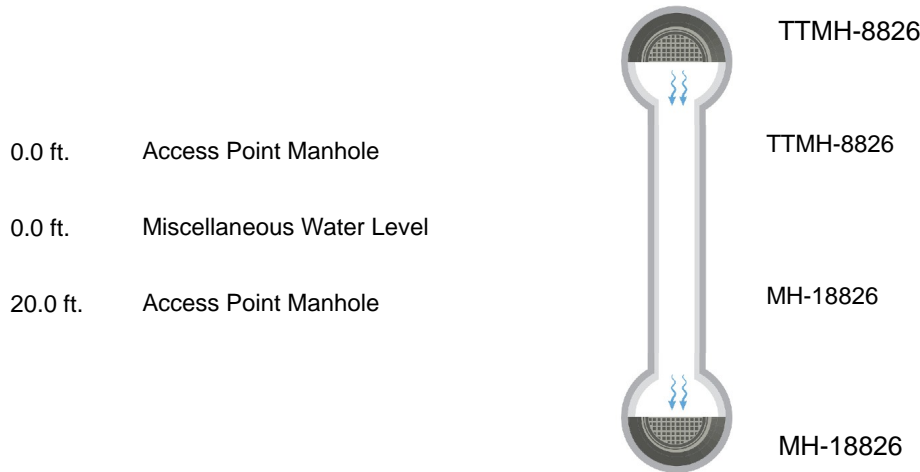
Inspected Ln.: 20

Project Total Ln.: 20.0

Project Inspected Ln.: 20.0

Defect Listing Plot

Pipe Segment Refere... TTMH-8826_MH-18826	City Lynn	Street South Street	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH TTMH-8826	Total Length 20	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18826	Length surveyed 20	Year Renewed	Height 18	Width 18	Pipe Joint... 13	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 14:04		Weather Dry - No P...	
Date Cleaned 20181227			End Time 14:05		Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18801	MH-18796	MH-18796_MH-18801_Rev	10/18/2018	South Street Court	Vitrified Clay Pipe	12	249	210

Pipe Size: 12

Total Ln.: 249

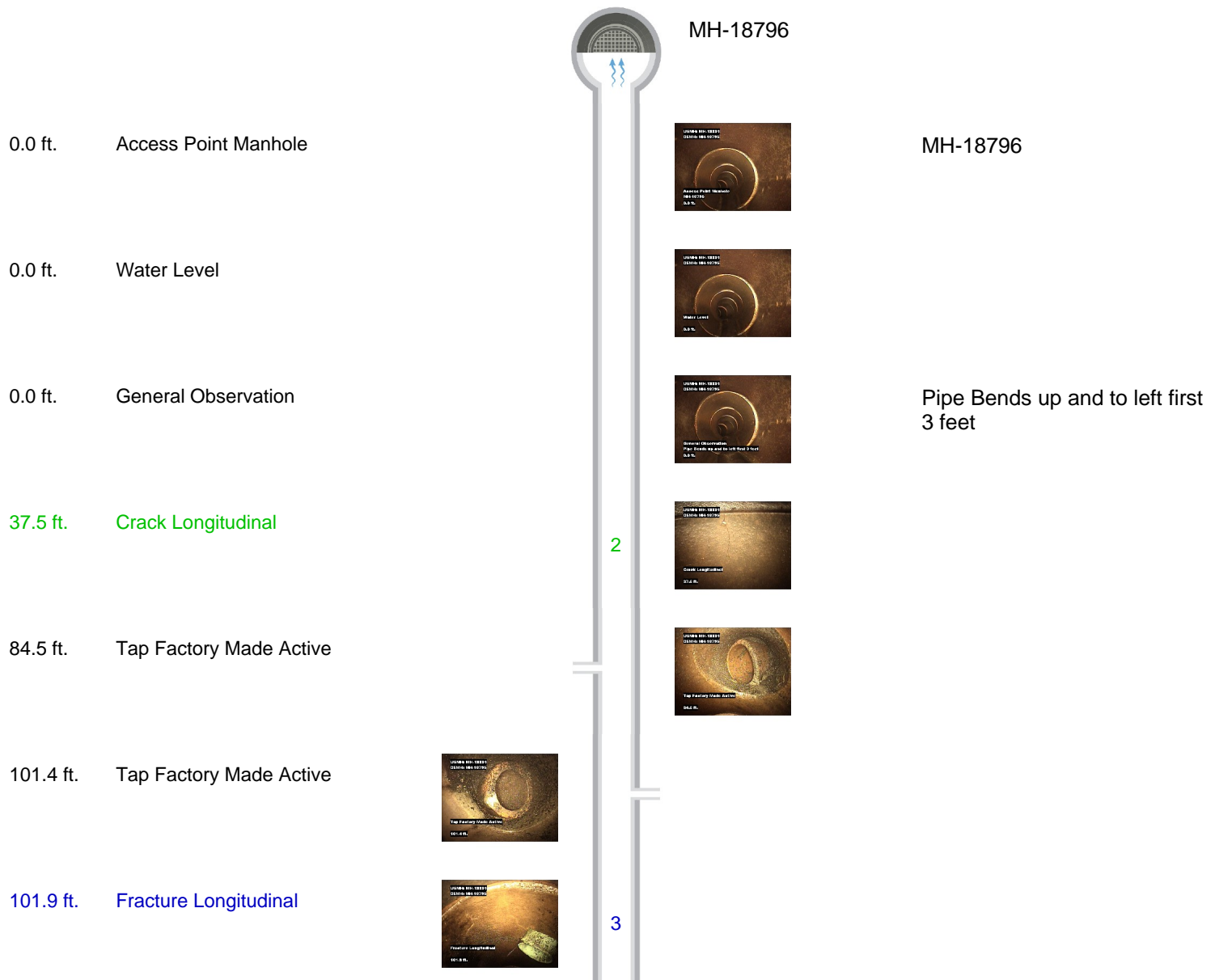
Inspected Ln.: 210

Project Total Ln.: 249.0

Project Inspected Ln.: 210.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18796_MH-18801_R...	Lynn- Ma	South Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18801	249		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18796	210		12	12	
SPR 18	MPR 9	PO Number		Customer	
SPRI 3	MPRI 1.8			Stantec	
QSR 4134	QMR 2411	Work Order		Purpose	
				Maintenance Related	
OPR 27	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181018	10-18-18	
OPRI 2.5	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	10:48	Dry	
Date Cleaned			End Time	Additional Info	
20181018			11:04		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18796_MH-18801_R...	Lynn- Ma	South Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18801	249		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18796	210		12	12	
SPR 18	MPR 9	PO Number		Customer	
SPRI 3	MPRI 1.8	Work Order		Stantec	
QSR 4134	QMR 2411			Purpose	
				Maintenance Related	
OPR 27	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181018	10-18-18	
OPRI 2.5	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	10:48	Dry	
Date Cleaned			End Time	Additional Info	
20181018			11:04		

102.4 ft. Tap Break-In Intruding



2

102.4 ft. Fracture Longitudinal - S01



3

106.6 ft. Fracture Multiple



4

108.4 ft. Fracture Longitudinal



3

114.3 ft. Fracture Longitudinal - F01



3

127.0 ft. Tap Factory Made Active



134.9 ft. Tap Factory Made Active



174.3 ft. Tap Factory Made Active



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18796_MH-18801_R...	Lynn- Ma	South Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18801	249		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18796	210		12	12	
SPR 18	MPR 9	PO Number		Customer	
SPRI 3	MPRI 1.8	Work Order		Stantec	
QSR 4134	QMR 2411			Purpose	
				Maintenance Related	
OPR 27	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181018	10-18-18	
OPRI 2.5	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	10:48	Dry	
Date Cleaned			End Time	Additional Info	
20181018			11:04		

189.1 ft. Tap Factory Made Defective



2

189.3 ft. Roots Fine Joint



1

201.4 ft. Tap Factory Made Active



202.8 ft. Roots Tap Joint



2

210.0 ft. Roots Tap Joint



2

210.0 ft. Survey Abandoned



End of Reversal





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18801	MH-18796	MH-18801_MH-18796	10/18/2018	South Street Court	Vitrified Clay Pipe	12	0	39

Pipe Size: 12

Total Ln.: 0

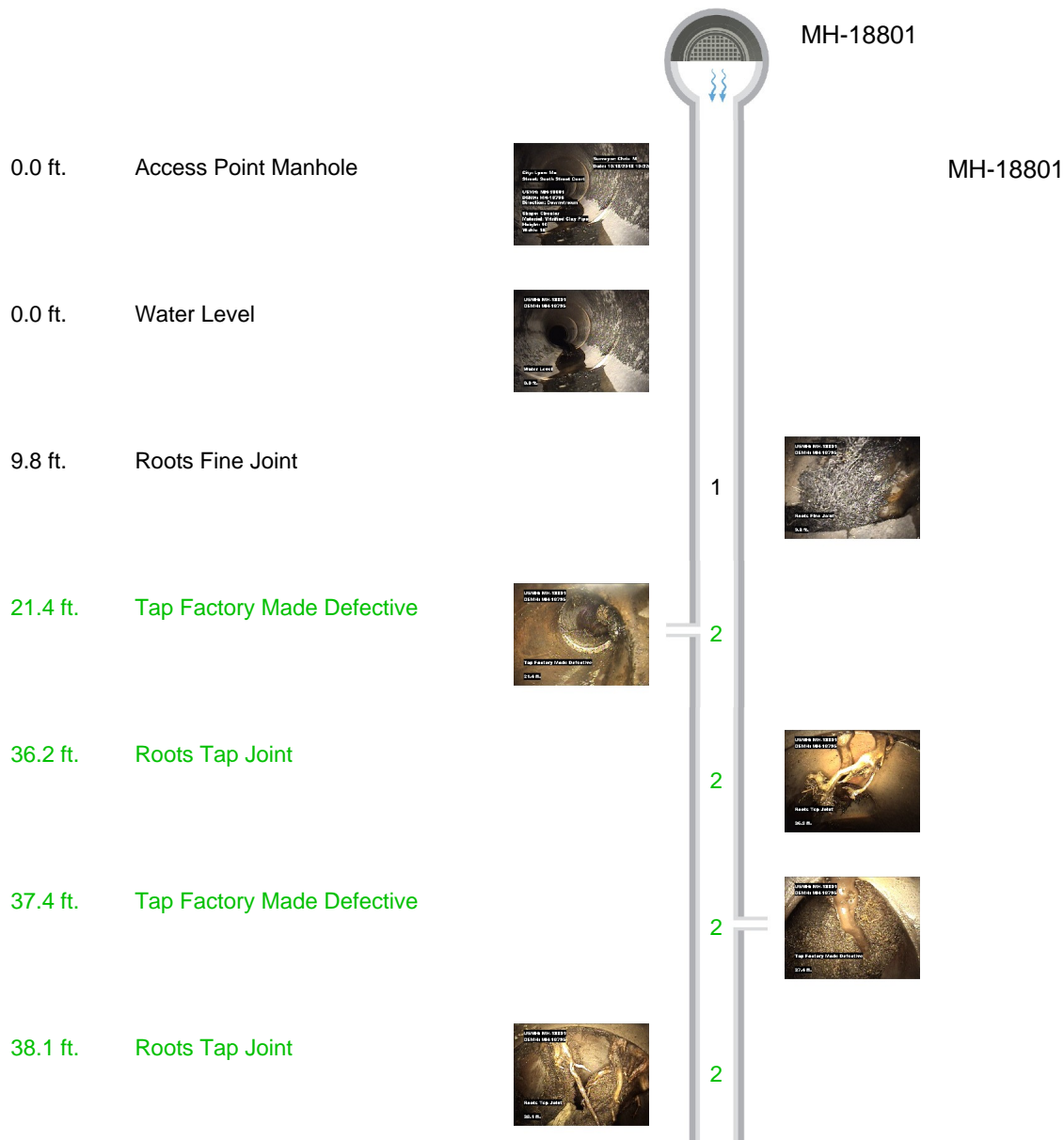
Inspected Ln.: 39

Project Total Ln.: 0.0

Project Inspected Ln.: 39.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18801_MH-18796	City Lynn- Ma	Street South Street Court	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18801	Total Length	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18796	Length surveyed 39	Year Renewed	Height 12	Width 12	Pipe Joint...
SPR N/A	MPR 9	PO Number		Customer Stantec	
SPRI N/A	MPRI 1.8	Work Order		Purpose Maintenance Related	
QSR N/A	QMR 2411				
OPR 9	Surveyed By Chris_M	Direction Downstream	Date 20181018	Media label 10-18-18	
OPRI 1.8	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 10:24	Weather Dry	
Date Cleaned 20181018			End Time 10:38	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18801_MH-18796		City Lynn- Ma	Street South Street Court	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH MH-18801		Total Length	Year Laid	Shape Circular		Location Details	
DS Manhole MH-18796		Length surveyed 39	Year Renewed	Height 12	Width 12	Pipe Joint...	
SPR	N/A	MPR	9	PO Number		Customer Stantec	
SPRI	N/A	MPRI	1.8	Work Order		Purpose	
QSR	N/A	QMR	2411			Maintenance Related	
OPR 9	Surveyed By Chris_M		Direction Downstream	Date 20181018		Media label 10-18-18	
OPRI 1.8	Certificate Number 10-08-7625		Pre-Cleaning Heavy Cleaning	Time 10:24		Weather Dry	
Date Cleaned 20181018				End Time 10:38		Additional Info	

39.0 ft. Survey Abandoned



Cannot get past Roots



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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18806	MH-18801	MH-18801_MH-18806	10/18/2018	South Street Court	Vitrified Clay Pipe	10	243	243

Pipe Size: 10

Total Ln.: 243

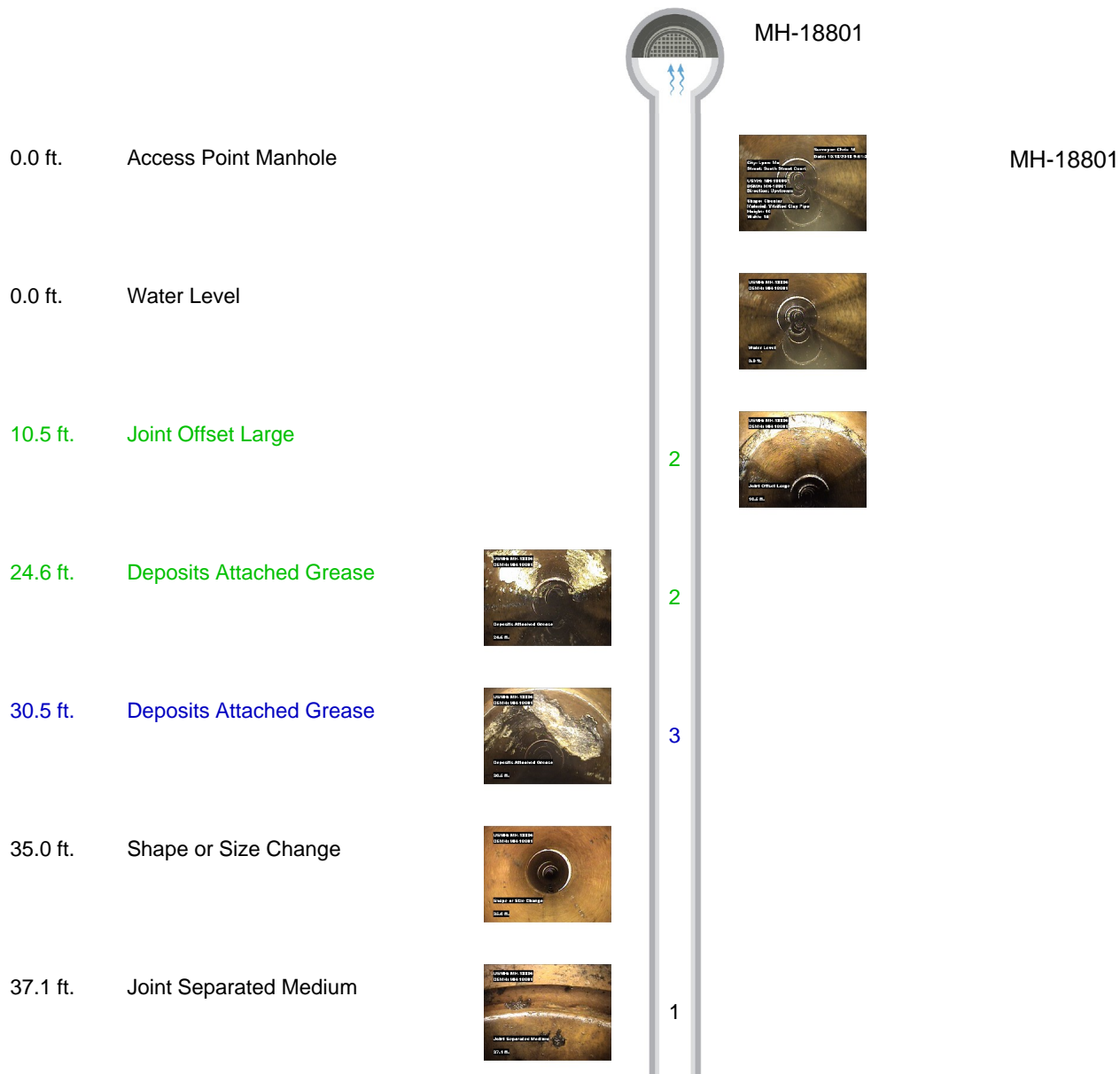
Inspected Ln.: 243

Project Total Ln.: 243.0

Project Inspected Ln.: 243.0

Defect Listing Plot with Images

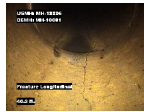
Pipe Segment Refere... MH-18801_MH-18806	City Lynn- Ma	Street South Street Court	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18806	Total Length 243	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18801	Length surveyed 243	Year Renewed	Height 10	Width 10	Pipe Joint...
SPR 41	MPR 9	PO Number		Customer Stantec	
SPRI 2.2	MPRI 2.3	Work Order		Purpose Maintenance Related	
QSR 5143	QMR 3123				
OPR 50	Surveyed By Chris_M	Direction Upstream	Date 20181018	Media label	
OPRI 2.2	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 09:52	Weather Dry	
Date Cleaned 20181018			End Time 10:17	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18801_MH-18806	Lynn- Ma	South Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18806	243		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18801	243		10	10	
SPR 41	MPR 9	PO Number		Customer	
SPRI 2.2	MPRI 2.3	Work Order		Stantec	
QSR 5143	QMR 3123			Purpose	
				Maintenance Related	
OPR 50	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181018		
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	09:52	Dry	
Date Cleaned			End Time	Additional Info	
20181018			10:17		

40.3 ft. Fracture Longitudinal



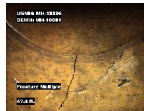
3

47.4 ft. Joint Offset Medium



1

47.4 ft. Fracture Multiple



4

54.3 ft. Crack Multiple



3

61.9 ft. Crack Multiple



3

72.6 ft. Joint Offset Medium



1

85.2 ft. Joint Offset Medium



1

95.3 ft. Joint Offset Medium



1

Defect Listing Plot with Images

Pipe Segment Refere... MH-18801_MH-18806	City Lynn- Ma	Street South Street Court	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18806	Total Length 243	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18801	Length surveyed 243	Year Renewed	Height 10	Width 10	Pipe Joint...
SPR 41	MPR 9	PO Number		Customer Stantec	
SPRI 2.2	MPRI 2.3	Work Order		Purpose Maintenance Related	
QSR 5143	QMR 3123				
OPR 50	Surveyed By Chris_M	Direction Upstream	Date 20181018	Media label	
OPRI 2.2	Certificate Number 10-08-7625	Pre-Cleaning Heavy Cleaning	Time 09:52	Weather Dry	
Date Cleaned 20181018			End Time 10:17	Additional Info	

110.1 ft. Joint Offset Medium



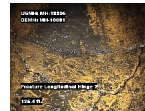
1

115.4 ft. Tap Factory Made Defective



2

126.4 ft. Fracture Longitudinal Hinge 2



4

132.4 ft. Joint Offset Medium



1

138.1 ft. Tap Factory Made Active



147.7 ft. Fracture Longitudinal Hinge 3



5

161.3 ft. Crack Longitudinal



2

163.0 ft. Joint Offset Medium

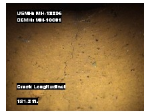


1

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18801_MH-18806	Lynn- Ma	South Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18806	243		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18801	243		10	10	
SPR 41	MPR 9	PO Number		Customer	
SPRI 2.2	MPRI 2.3	Work Order		Stantec	
QSR 5143	QMR 3123			Purpose	
				Maintenance Related	
OPR 50	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181018		
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Heavy Cleaning	09:52	Dry	
Date Cleaned			End Time	Additional Info	
20181018			10:17		

181.3 ft. Crack Longitudinal

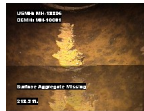


2

206.1 ft. Tap Factory Made Active



218.2 ft. Surface Aggregate Missing



4

227.2 ft. Joint Offset Medium



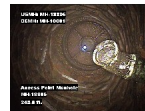
1

234.8 ft. Tap Factory Made Defective



2

243.0 ft. Access Point Manhole



MH-18806



MH-18806

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-19-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TT-CB0131	MH-18801	MH-18801_TT-CB0131	10/18/2018	South Street Court	Vitrified Clay Pipe	8	7	7

Pipe Size: 8

Total Ln.: 7

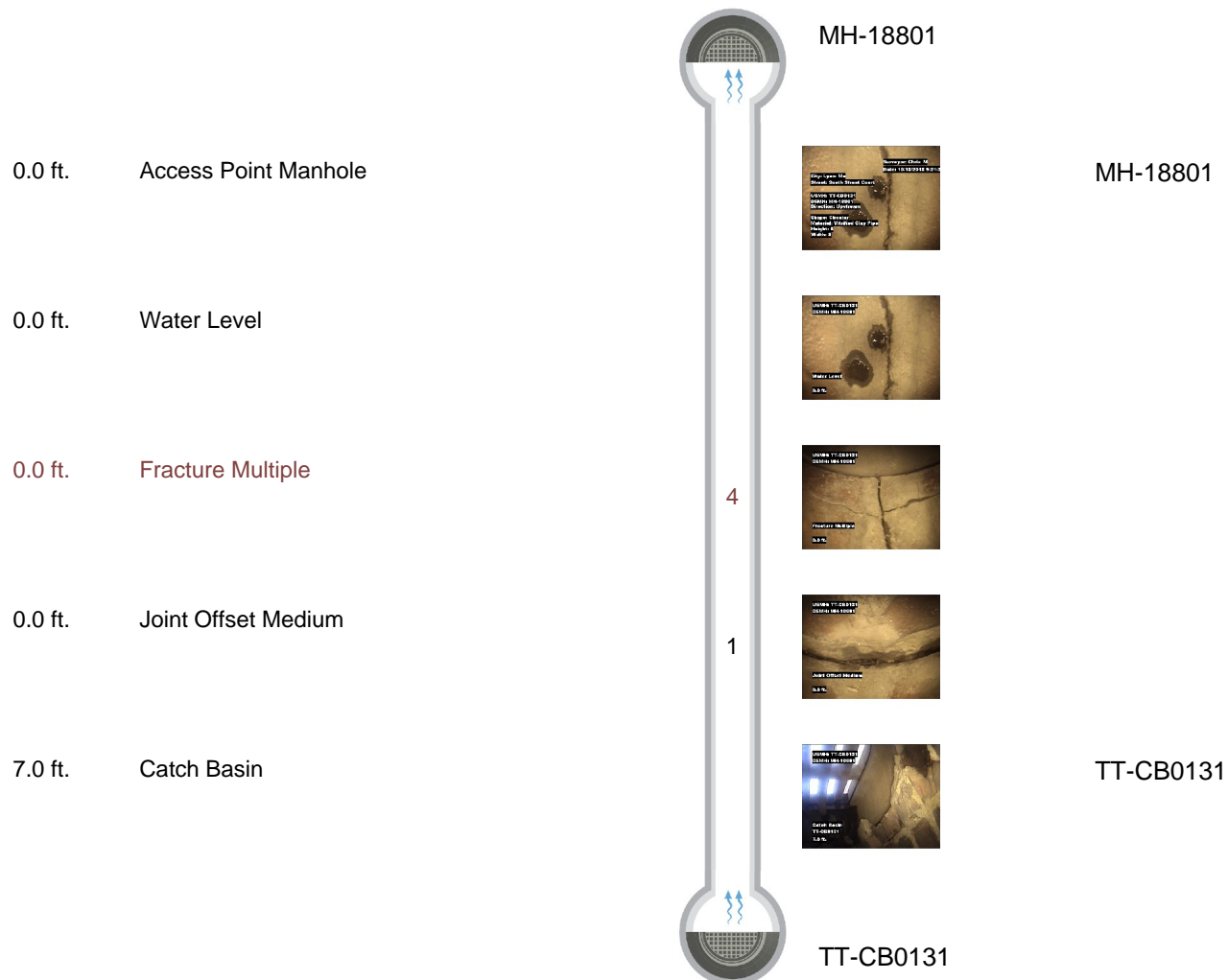
Inspected Ln.: 7

Project Total Ln.: 7.0

Project Inspected Ln.: 7.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18801_TT-CB0131	Lynn- Ma	South Street Court	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-CB0131	7		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18801	7		8	8	
SPR 5	MPR N/A	PO Number		Customer	
SPRI 2.5	MPRI N/A	Work Order		Stantec	
QSR 4111	QMR N/A			Purpose	
				Maintenance Related	
OPR 5	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181018	10-18-18	
OPRI 2.5	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	No Pre-Cleaning	09:22	Dry	
Date Cleaned			End Time	Additional Info	
			09:27		





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-2-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18721	MH-18726	MH-18726_MH-18721	11/1/2018	South Street Place	Vitrified Clay Pipe	8	75	75

Pipe Size: 8

Total Ln.: 75

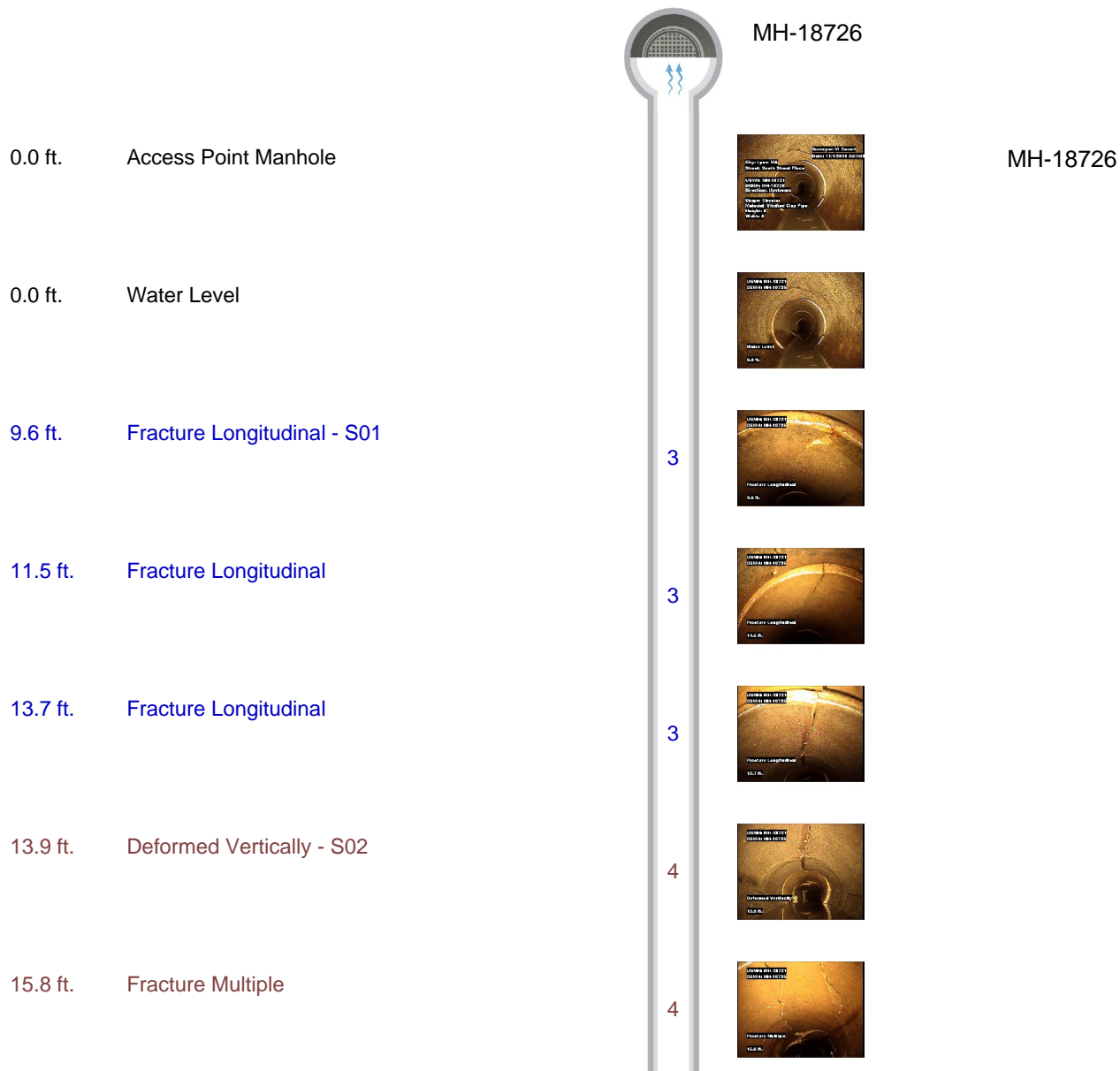
Inspected Ln.: 75

Project Total Ln.: 75.0

Project Inspected Ln.: 75.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18726_MH-18721	Lynn- MA	South Street Place	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18721	75		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18726	75		8	8	
SPR 35	MPR 4	PO Number		Customer	
SPRI 3.5	MPRI 2			Stantec	
QSR 5143	QMR 2200	Work Order		Purpose	
				Maintenance Related	
OPR 39	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181101	11-1-18	
OPRI 3.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	14:58	Dry	
Date Cleaned			End Time	Additional Info	
20181101			15:08		



Defect Listing Plot with Images

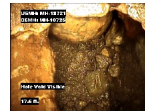
Pipe Segment Refere... MH-18726_MH-18721	City Lynn- MA	Street South Street Place	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18721	Total Length 75	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18726	Length surveyed 75	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 35	MPR 4	PO Number		Customer Stantec	
SPRI 3.5	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5143	QMR 2200				
OPR 39	Surveyed By M_Davert	Direction Upstream	Date 20181101	Media label 11-1-18	
OPRI 3.3	Certificate Number 07003881	Pre-Cleaning Jetting	Time 14:58	Weather Dry	
Date Cleaned 20181101			End Time 15:08	Additional Info	

17.4 ft. Tap Factory Made Defective



2

17.6 ft. Hole Void Visible



5

22.2 ft. Fracture Longitudinal



3

23.8 ft. Tap Factory Made Capped



26.0 ft. Fracture Longitudinal - F01



3

26.0 ft. Deformed Vertically - F02

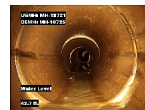


4

37.2 ft. Water Level



42.7 ft. Water Level



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18726_MH-18721	Lynn- MA	South Street Place	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18721	75		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18726	75		8	8	
SPR 35	MPR 4	PO Number		Customer	
SPRI 3.5	MPRI 2			Stantec	
QSR 5143	QMR 2200	Work Order		Purpose	
				Maintenance Related	
OPR 39	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181101	11-1-18	
OPRI 3.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	14:58	Dry	
Date Cleaned			End Time	Additional Info	
20181101			15:08		

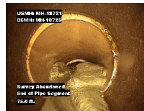
49.0 ft. Tap Factory Made Capped



59.3 ft. Tap Factory Made Defective



75.0 ft. Survey Abandoned



End of Pipe Segment



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-2-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18726	MH-18821	MH-18726_MH-18821	11/1/2018	South Street Place	Vitrified Clay Pipe	8	125	125

Pipe Size: 8

Total Ln.: 125

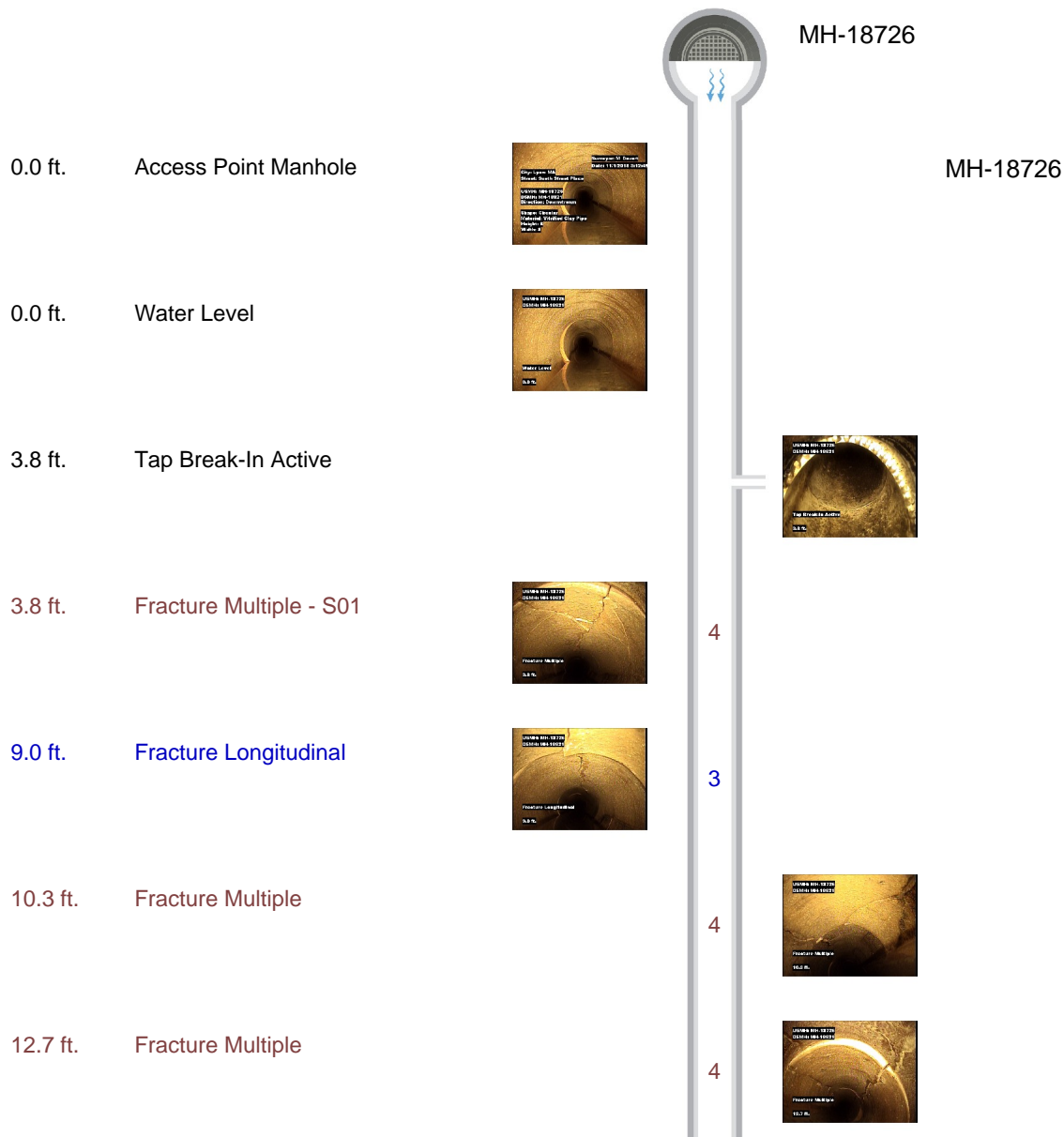
Inspected Ln.: 125

Project Total Ln.: 125.0

Project Inspected Ln.: 125.0

Defect Listing Plot with Images

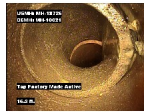
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18726_MH-18821	Lynn- MA	South Street Place	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18726	125		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18821	125		8	8	
SPR 49	MPR 6	PO Number		Customer	
SPRI 3.8	MPRI 3			Stantec	
QSR 5149	QMR 4121	Work Order		Purpose	
				Maintenance Related	
OPR 55	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181101	11-1-18	
OPRI 3.7	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	15:13	Dry	
Date Cleaned			End Time	Additional Info	
20181101			15:25		



Defect Listing Plot with Images

Pipe Segment Refere... MH-18726_MH-18821	City Lynn- MA	Street South Street Place	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH-18726	Total Length 125	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18821	Length surveyed 125	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 49	MPR 6	PO Number		Customer Stantec	
SPRI 3.8	MPRI 3	Work Order		Purpose Maintenance Related	
QSR 5149	QMR 4121				
OPR 55	Surveyed By M_Davert	Direction Downstream	Date 20181101	Media label 11-1-18	
OPRI 3.7	Certificate Number 07003881	Pre-Cleaning Jetting	Time 15:13	Weather Dry	
Date Cleaned 20181101			End Time 15:25	Additional Info	

16.3 ft. Tap Factory Made Active

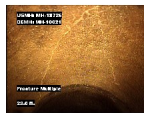


17.8 ft. Fracture Multiple



4

23.0 ft. Fracture Multiple - F01



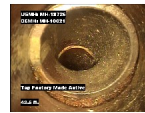
4

32.0 ft. Crack Longitudinal

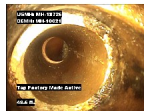


2

43.5 ft. Tap Factory Made Active



49.6 ft. Tap Factory Made Active



76.8 ft. Tap Factory Made Capped



99.6 ft. Crack Multiple

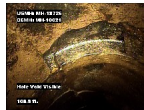


3

Defect Listing Plot with Images

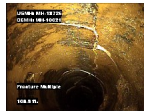
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18726_MH-18821	Lynn - MA	South Street Place	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-18726	125		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18821	125		8	8	
SPR 49	MPR 6	PO Number		Customer	
SPRI 3.8	MPRI 3			Stantec	
QSR 5149	QMR 4121	Work Order		Purpose	
				Maintenance Related	
OPR 55	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181101	11-1-18	
OPRI 3.7	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	15:13	Dry	
Date Cleaned			End Time	Additional Info	
20181101			15:25		

100.9 ft. Hole Void Visible



5

100.9 ft. Fracture Multiple - S02



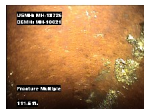
4

105.7 ft. Infiltration Runner



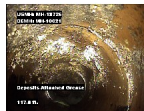
4

111.5 ft. Fracture Multiple - F02



4

117.0 ft. Deposits Attached Grease



2

119.2 ft. Material Change



PVC

125.0 ft. Access Point Manhole



MH-18821



MH-18821



Inland Waters Inc.
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		CITY OF LYNN CCTV						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
End East	MH-18391	MH-18391_End East	10/11/2018	Summer Street	Vitrified Clay Pipe	8	220	109

Pipe Size: 8

Total Ln.: 220

Inspected Ln.: 109

Project Total Ln.: 220.0

Project Inspected Ln.: 109.0

Defect Listing Plot

Pipe Segment Refere... MH-18391_End East	City Lynn	Street Summer Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH End East	Total Length 220	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18391	Length surveyed 109	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 26	PO Number		Customer Stantec	
SPRI 0	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 0000	QMR 2A00				
OPR 26	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 12:17	Weather Damp	
Date Cleaned 20181011			End Time 12:34	Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH-18391_End East	City Lynn	Street Summer Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH End East	Total Length 220	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18391	Length surveyed 109	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 26	PO Number		Customer Stantec	
SPRI 0	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 0000	QMR 2A00				
OPR 26	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 12:17	Weather Damp	
Date Cleaned 20181011			End Time 12:34	Additional Info	

109.0 ft. Survey Abandoned



Cant Get Past Intruding Tap. No MH
for Reversal.

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
End West	MH-18391	MH-18391_End West	10/11/2018	Summer Street	Vitrified Clay Pipe	8	203	203

Pipe Size: 8

Total Ln.: 203

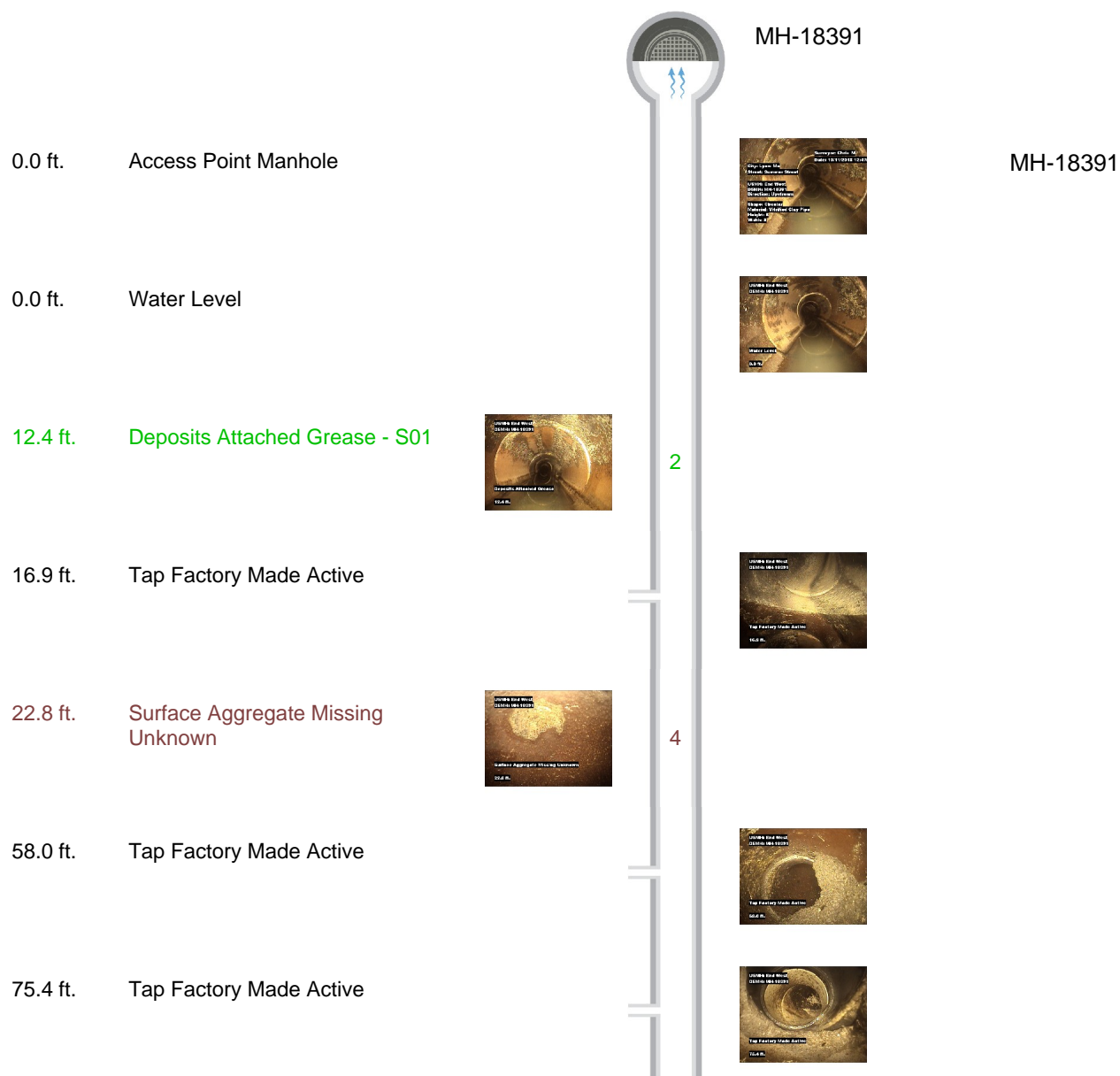
Inspected Ln.: 203

Project Total Ln.: 203.0

Project Inspected Ln.: 203.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18391_End West	City Lynn- Ma	Street Summer Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH End West	Total Length 203	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18391	Length surveyed 203	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 5	MPR 34	PO Number		Customer Stantec	
SPRI 2.5	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 4111	QMR 2B00				
OPR 39	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2.1	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 14:24	Weather Damp	
Date Cleaned 20181011			End Time 14:34	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18391_End West	City Lynn- Ma	Street Summer Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH End West	Total Length 203	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18391	Length surveyed 203	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 5	MPR 34	PO Number		Customer Stantec	
SPRI 2.5	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 4111	QMR 2B00				
OPR 39	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2.1	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 14:24	Weather Damp	
Date Cleaned 20181011			End Time 14:34	Additional Info	

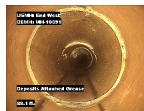
75.5 ft. Tap Break-In Active



80.8 ft. Tap Factory Made Active



89.1 ft. Deposits Attached Grease - F01



2

93.6 ft. Tap Factory Made Capped



96.3 ft. Deposits Attached Grease



2

108.4 ft. Tap Factory Made Active



117.9 ft. Tap Factory Made Active



122.8 ft. Joint Offset Medium



1

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18391_End West	Lynn- Ma	Summer Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
End West	203		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18391	203		8	8	
SPR 5	MPR 34	PO Number		Customer	
SPRI 2.5	MPRI 2			Stantec	
QSR 4111	QMR 2B00	Work Order		Purpose	
				Maintenance Related	
OPR 39	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181011	10-11-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	14:24	Damp	
Date Cleaned			End Time	Additional Info	
20181011			14:34		

136.4 ft. Tap Factory Made Active



165.1 ft. Tap Break-In Active



169.2 ft. Tap Break-In Intruding



203.0 ft. Survey Abandoned



Cannot get past Intruding Tap.
End of Pipe at about 203'.



Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-28-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18811	MH-18831	MH-18811_MH-18831	12/27/2018	Summer Street	Vitrified Clay Pipe	12	215	215

Pipe Size: 12

Total Ln.: 215

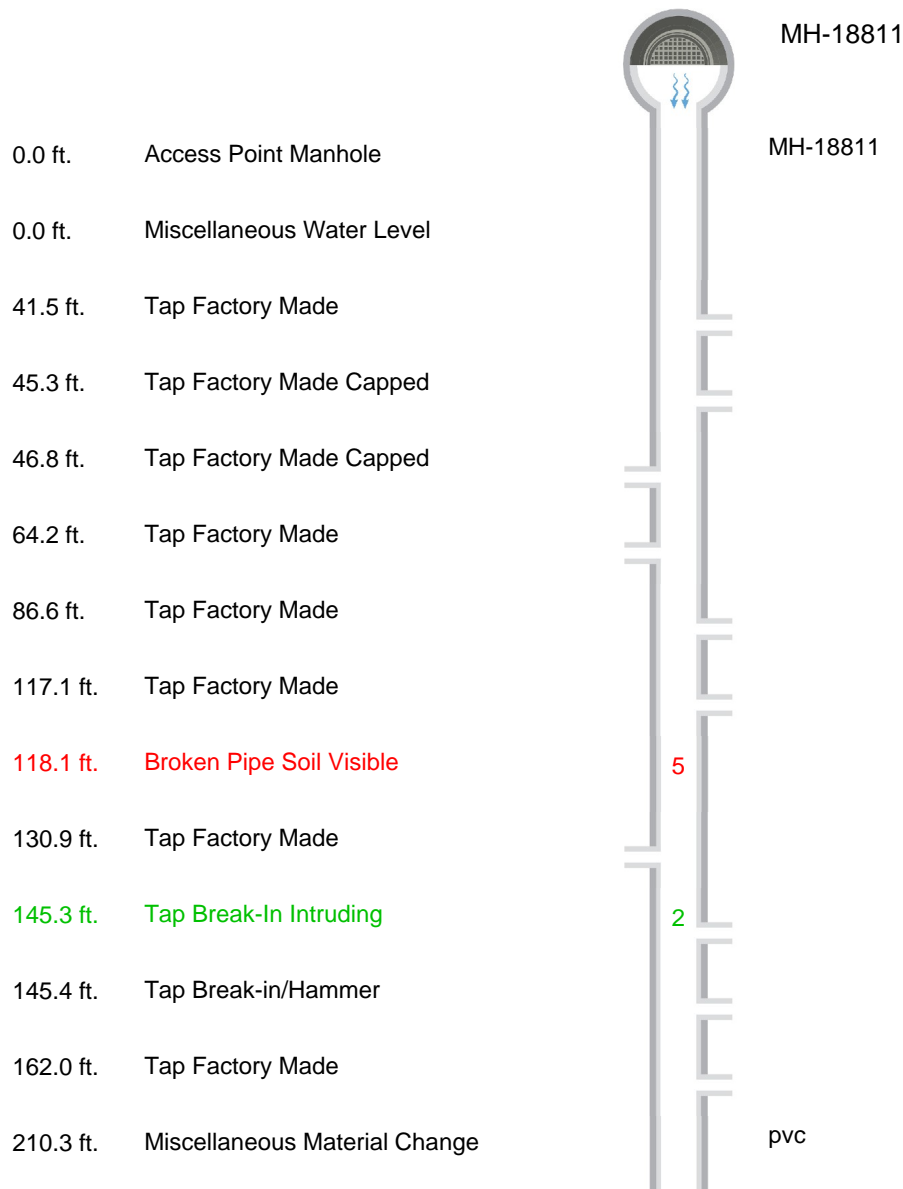
Inspected Ln.: 215

Project Total Ln.: 215.0

Project Inspected Ln.: 215.0

Defect Listing Plot

Pipe Segment Refere... MH-18811_MH-18831	City Lynn	Street Summer Street	Material Vitrified Clay Pipe		Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18811	Total Length 215	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-18831	Length surveyed 215	Year Renewed	Height 12	Width 12	Pipe Joint... 3	
SPR	MPR	PO Number		Customer City of Lynn		
SPRI	MPRI	Work Order Number		Purpose Maintenance Related		
QSR	QMR					
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227		Media label 12-27-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 08:38		Weather Dry - No P...	
Date Cleaned 20181227			End Time 09:50		Additional Info	



Defect Listing Plot

Pipe Segment Refere... MH-18811_MH-18831	City Lynn	Street Summer Street	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Sanitary S...
Upstream MH MH-18811	Total Length 215	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18831	Length surveyed 215	Year Renewed	Height 12	Width 12	Pipe Joint... 3
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181227	Maintenance Related	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 08:38	Media label 12-27-18	Weather Dry - No P...
Date Cleaned 20181227			End Time 09:50	Additional Info	

215.0 ft. Access Point Manhole

MH-18831



MH-18831

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18841	MH-19286	MH-18916_MH19286	12/19/2018	Western Avenue	Vitrified Clay Pipe	12	233	233

Pipe Size: 12

Total Ln.: 233

Inspected Ln.: 233

Project Total Ln.: 233.0

Project Inspected Ln.: 233.0

Defect Listing Plot

Pipe Segment Refere... MH-18916_MH19286	City LYNN	Street Western Avenue	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18841	Total Length 233	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-19286	Length surveyed 233	Year Renewed	Height 12	Width 12	Pipe Joint... 13
SPR	MPR	PO Number		Customer	
SPRI	MPRI	Work Order Number		City of Lynn	
QSR	QMR			Purpose	
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181219	Maintenance Related	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 13:29	Media label 12-19-18	Weather Dry - No P...
Date Cleaned			End Time 13:43	Additional Info	



MH-18841

0.0 ft. Miscellaneous Water Level

30.2 ft. Tap Factory Made

54.4 ft. Tap Factory Made

71.3 ft. Tap Factory Made

101.2 ft. Tap Factory Made

118.4 ft. Tap Factory Made Capped

120.0 ft. Tap Break-in/Hammer

121.7 ft. Tap Break-in/Hammer

148.7 ft. Tap Factory Made

163.3 ft. Tap Factory Made

192.1 ft. Tap Break-in/Hammer

209.9 ft. Tap Factory Made

210.6 ft. Miscellaneous General Observation

233.0 ft. Access Point Manhole

brick repair

MH-19286

Defect Listing Plot

Pipe Segment Refere... MH-18916_MH19286	City LYNN	Street Western Avenue	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18841	Total Length 233	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-19286	Length surveyed 233	Year Renewed	Height 12	Width 12	Pipe Joint... 13
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR	Direction Downstream		Date 20181219	
OPR	Surveyed By W.Martinez	Pre-Cleaning Heavy Cleaning	Time 13:29	Weather Dry - No P...	Media label 12-19-18
OPRI	Certificate Number U-213-17282	Date Cleaned	End Time 13:43	Additional Info	



MH-19286

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Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18841	MH-19351	MH18841_MH-19351	12/19/2018	Western Avenue	PolyVinyl Chloride	15	177	177

Pipe Size: 15

Total Ln.: 177

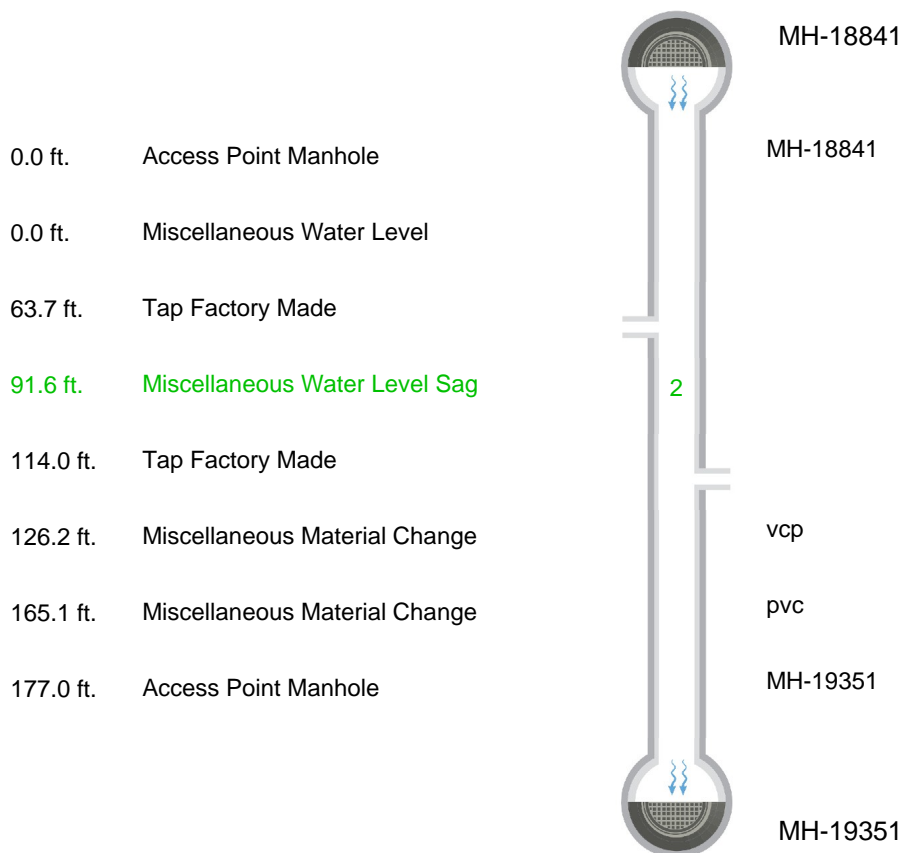
Inspected Ln.: 177

Project Total Ln.: 177.0

Project Inspected Ln.: 177.0

Defect Listing Plot

Pipe Segment Refere... MH18841_MH-19351	City LYNN	Street Western Avenue	Material PolyVinyl Chloride		Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-18841	Total Length 177	Year Constructed	Shape Circular		Location Details	
Downstream MH MH-19351	Length surveyed 177	Year Renewed	Height 15	Width 15	Pipe Joint... 13	
SPR	MPR	PO Number			Customer	
SPRI	MPRI	Work Order Number			City of Lynn	
QSR	QMR				Purpose	
		Maintenance Related				
OPR	Surveyed By W.Martinez	Direction Downstream	Date 20181219		Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Light Cleaning	Time 10:23		Weather Dry - No P...	
Date Cleaned 20181219			End Time 10:50		Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-19286	MH-18841	MH-19286_MH-18841 REV	12/19/2018	Western Avenue	Vitrified Clay Pipe	12	0	137

Pipe Size: 12

Total Ln.: 0

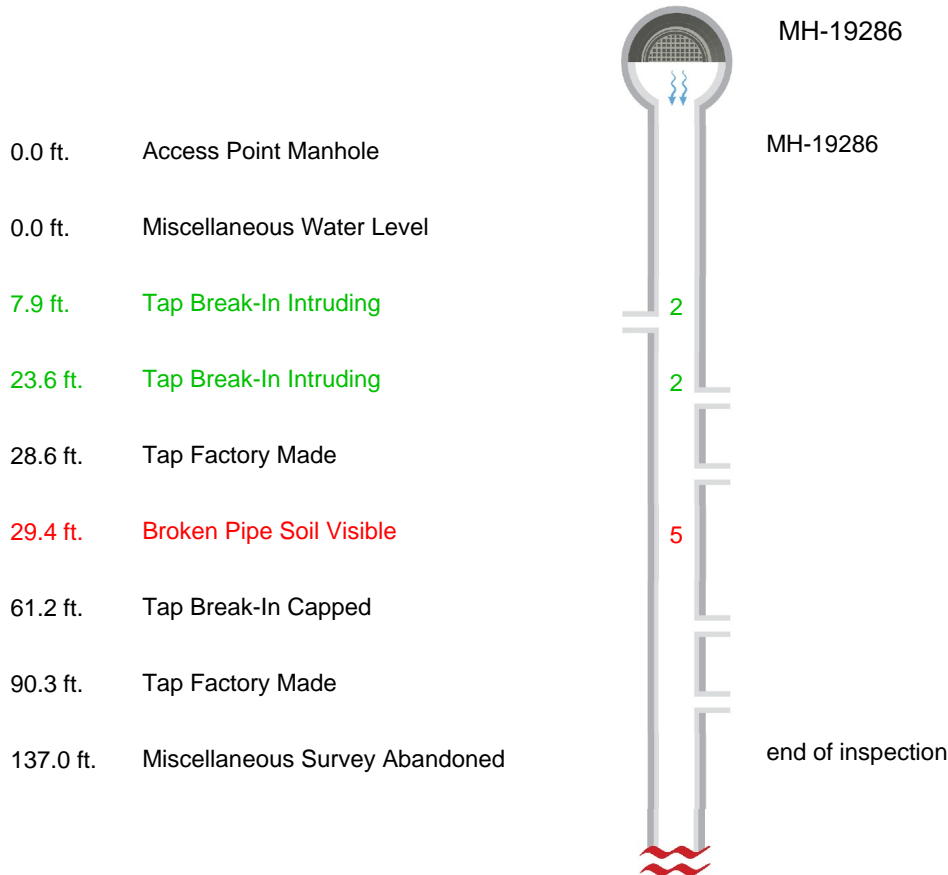
Inspected Ln.: 137

Project Total Ln.: 0.0

Project Inspected Ln.: 137.0

Defect Listing Plot

Pipe Segment Refere... MH-19286_MH-18841 R...	City LYNN	Street Western Avenue	Material Vitrified Clay Pipe	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-19286	Total Length N/A	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18841	Length surveyed 137	Year Renewed	Height 12	Width 12	Pipe Joint... 13
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR	Direction Downstream		Date 20181219	
OPR	Surveyed By W.Martinez	Pre-Cleaning Heavy Cleaning	Time 13:52	Weather Dry - No P...	Media label 12-19-18
OPRI	Certificate Number U-213-17282	Date Cleaned 20181219	End Time 13:58	Additional Info	





Inland Waters inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name:		City of Lynn Clean and CCTV WE 12-21-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-19286	MH-18841	MH-18841_MH-19286	12/19/2018	Western Avenue	PolyVinyl Chloride	12	251	114

Pipe Size: 12

Total Ln.: 251

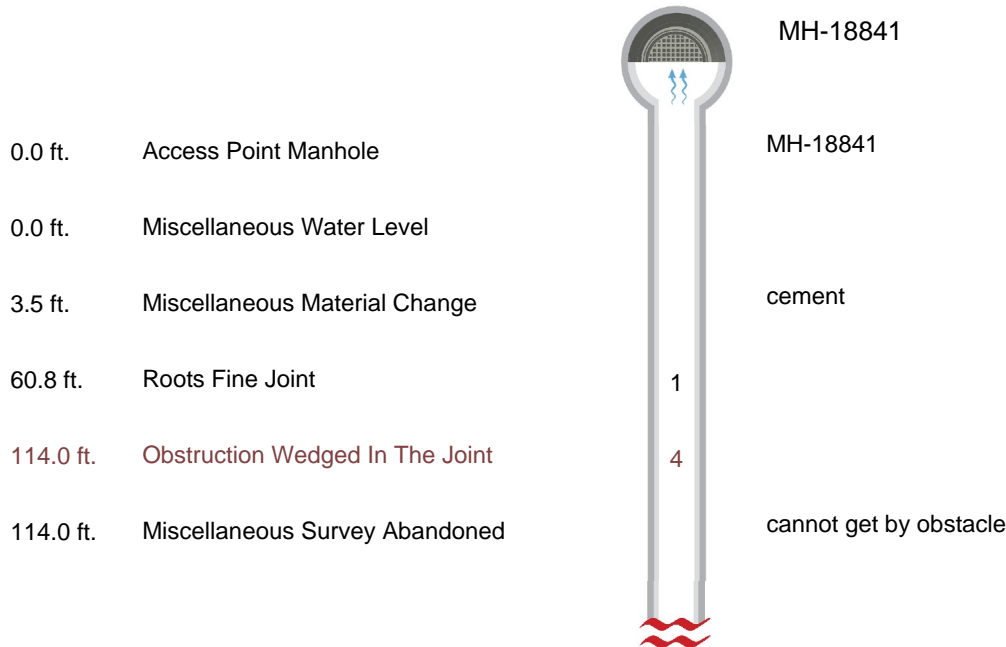
Inspected Ln.: 114

Project Total Ln.: 251.0

Project Inspected Ln.: 114.0

Defect Listing Plot

Pipe Segment Refere... MH-18841_MH-19286	City LYNN	Street Western Avenue	Material PolyVinyl Chloride	Location C... Local/Rura...	Pipe Use Combined P...
Upstream MH MH-19286	Total Length 251	Year Constructed	Shape Circular	Location Details	
Downstream MH MH-18841	Length surveyed 114	Year Renewed	Height 12	Width 12	Pipe Joint... 13
SPR	MPR	PO Number		Customer City of Lynn	
SPRI	MPRI	Work Order Number		Purpose Maintenance Related	
QSR	QMR				
OPR	Surveyed By W.Martinez	Direction Upstream	Date 20181219	Media label 12-19-18	
OPRI	Certificate Number U-213-17282	Pre-Cleaning Heavy Cleaning	Time 10:10	Weather Dry - No P...	
Date Cleaned			End Time 10:18	Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-23-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-19291	TTMH-9216	MH-19291_TTMH-9216	11/19/2018	Western Avenue	Vitrified Clay Pipe	12	107	107

Pipe Size: 12

Total Ln.: 107

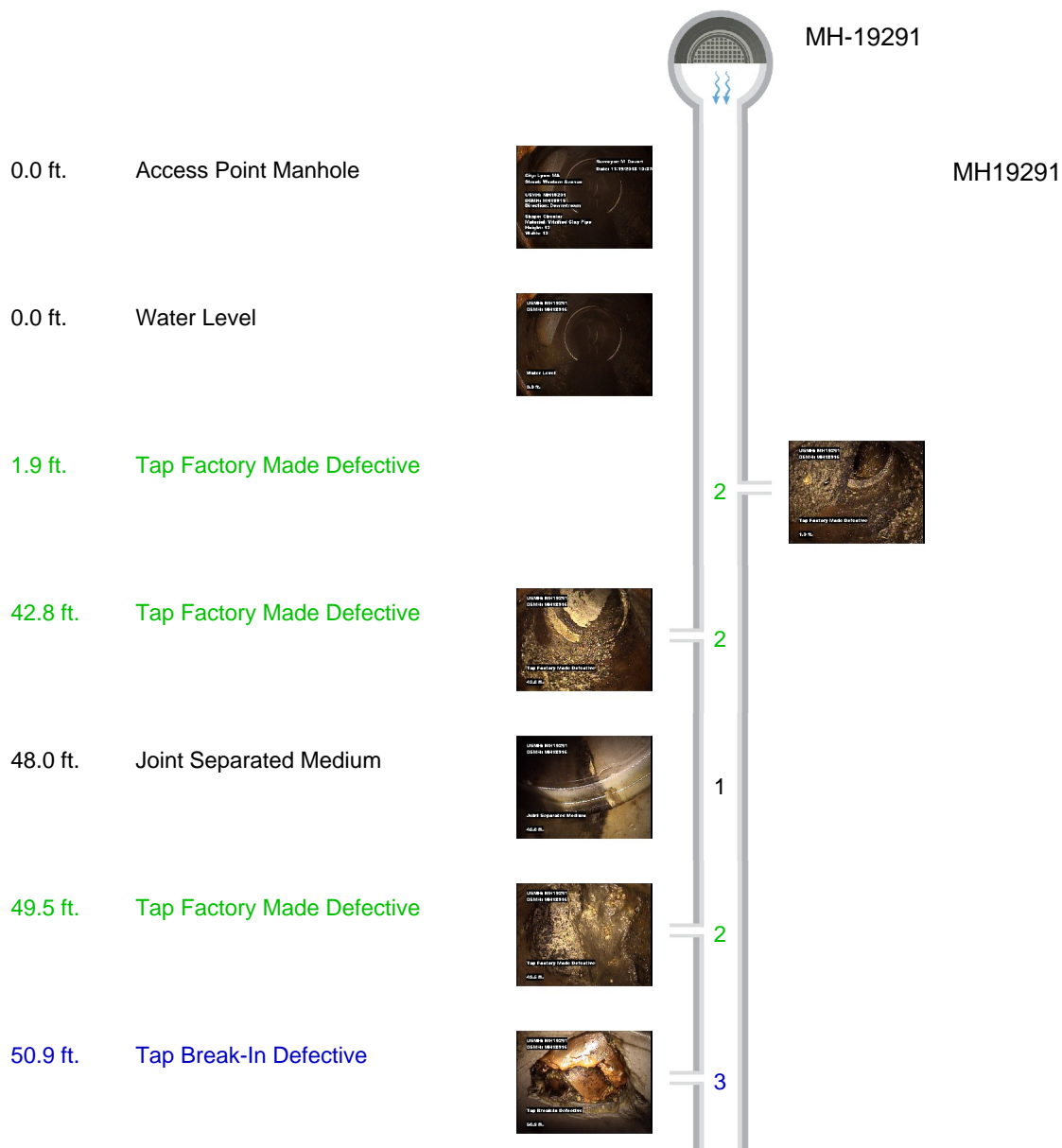
Inspected Ln.: 107

Project Total Ln.: 107.0

Project Inspected Ln.: 107.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-19291_TTMH-9216	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-19291	107		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TTMH-9216	107		12	12	
SPR 1	MPR 24	PO Number		Customer	
SPRI 1	MPRI 2.4			Stantec	
QSR 1100	QMR 3426	Work Order		Purpose	
				Maintenance Related	
OPR 25	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181119	11-19-18	
OPRI 2.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	10:38	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			10:52		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-19291_TTMH-9216	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH-19291	107		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TTMH-9216	107		12	12	
SPR 1	MPR 24	PO Number		Customer	
SPRI 1	MPRI 2.4			Stantec	
QSR 1100	QMR 3426	Work Order		Purpose	
				Maintenance Related	
OPR 25	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181119	11-19-18	
OPRI 2.3	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	10:38	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			10:52		

51.4 ft. Tap Factory Made Defective

2



77.1 ft. Tap Break-In Active



90.2 ft. Tap Factory Made Defective

2



90.7 ft. Deposits Attached Grease - S01

3



100.4 ft. Tap Factory Made Defective

2



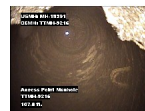
106.5 ft. Deposits Attached Grease - F01

3



107.0 ft. Access Point Manhole

TTMH-9216



TTMH-9216

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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-23-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
SGM-44486	TTMH-9644	TTMH-9644_SGM-44486	11/19/2018	Western Avenue	Vitrified Clay Pipe	12	260	155

Pipe Size: 12

Total Ln.: 260

Inspected Ln.: 155

Project Total Ln.: 260.0

Project Inspected Ln.: 155.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TTMH-9644_SGM-44486	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
SGM-44486	260		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TTMH-9644	155		12	12	
SPR 19	MPR 6	PO Number		Customer	
SPRI 3.2	MPRI 2			Stantec	
QSR 5241	QMR 2300	Work Order		Purpose	
				Maintenance Related	
OPR 25	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181119	11-19-18	
OPRI 2.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	09:34	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			09:48		



Defect Listing Plot with Images

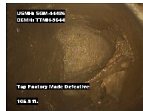
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TTMH-9644_SGM-44486	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
SGM-44486	260		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TTMH-9644	155		12	12	
SPR 19	MPR 6	PO Number		Customer	
SPRI 3.2	MPRI 2			Stantec	
QSR 5241	QMR 2300	Work Order		Purpose	
				Maintenance Related	
OPR 25	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181119	11-19-18	
OPRI 2.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	09:34	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			09:48		

77.4 ft. Joint Offset Medium

1



105.9 ft. Tap Factory Made Defective



2

123.7 ft. Joint Offset Medium



1

142.2 ft. Fracture Longitudinal



3

144.5 ft. Tap Factory Made Active



1

148.7 ft. Fracture Multiple

4



150.4 ft. Deformed Vertically

5



155.0 ft. Survey Abandoned



Cannot get through Deformed Pipe

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TTMH-9644_SGM-44486	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
SGM-44486	260		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TTMH-9644	155		12	12	
SPR 19	MPR 6	PO Number		Customer	
SPRI 3.2	MPRI 2			Stantec	
QSR 5241	QMR 2300	Work Order		Purpose	
				Maintenance Related	
OPR 25	Surveyed By	Direction	Date	Media label	
	M_Davert	Upstream	20181119	11-19-18	
OPRI 2.8	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Heavy Cleaning	09:34	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			09:48		





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-23-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TTMH-9216	MH-18916	TTMH-9216_MH-18916	11/19/2018	Western Avenue	Vitrified Clay Pipe	12	115	115

Pipe Size: 12

Total Ln.: 115

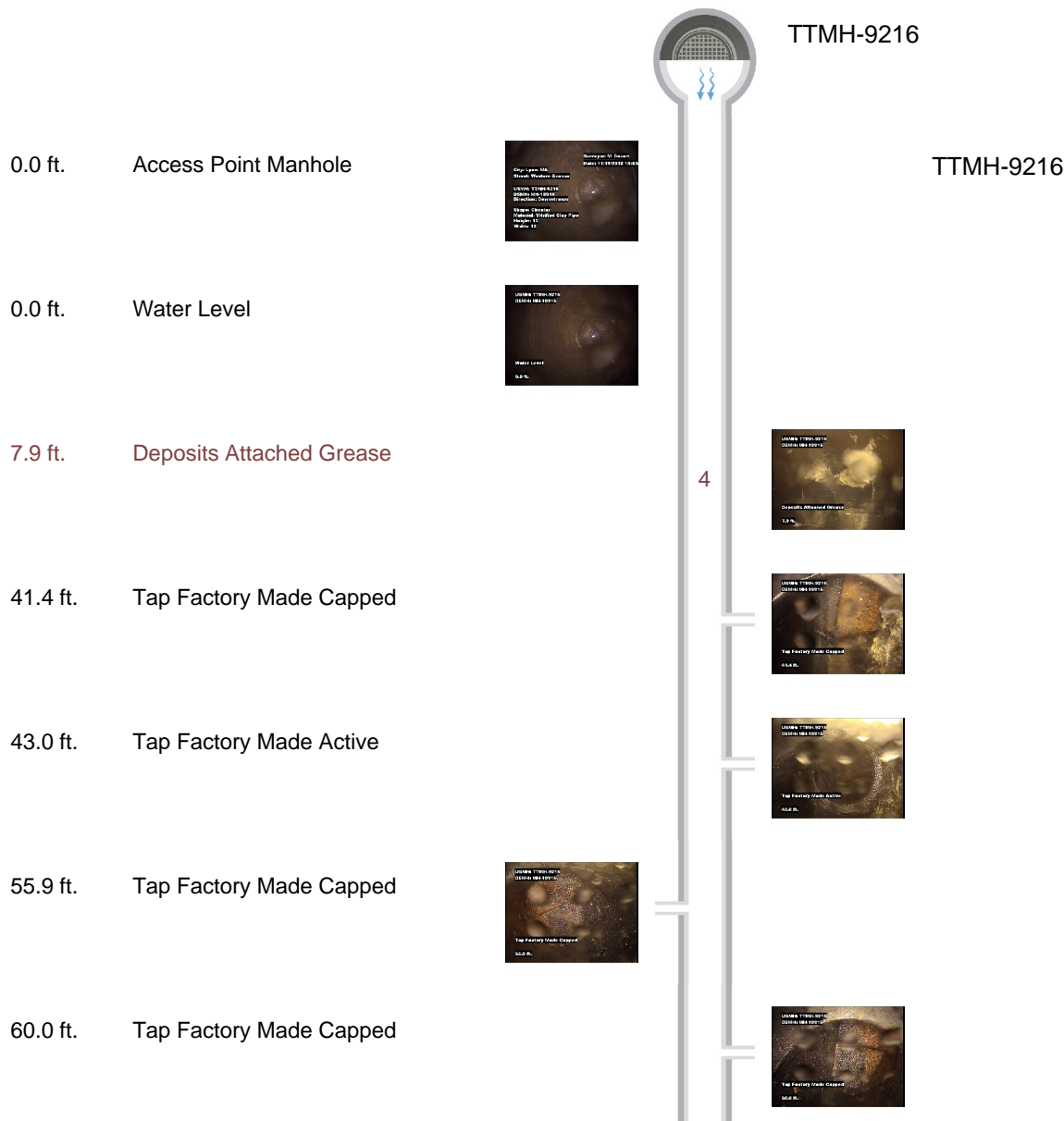
Inspected Ln.: 115

Project Total Ln.: 115.0

Project Inspected Ln.: 115.0

Defect Listing Plot with Images

Pipe Segment Refere...		City	Street	Material		Location C...	Sewer Use
TTMH-9216_MH-18916		Lynn- MA	Western Avenue	Vitrified Clay Pipe		Light High...	Combined
Upstream MH		Total Length	Year Laid	Shape		Location Details	
TTMH-9216		115		Circular			
DS Manhole		Length surveyed	Year Renewed	Height	Width	Pipe Joint...	
MH-18916		115		12	12		
SPR	N/A	MPR	6	PO Number		Customer	
SPRI	N/A	MPRI	3			Stantec	
QSR	N/A	QMR	4121	Work Order		Purpose	
						Maintenance Related	
OPR		Surveyed By	Direction	Date		Media label	
6		M_Davert	Downstream	20181119		11-19-18	
OPRI		Certificate Number	Pre-Cleaning	Time		Weather	
3		07003881	Heavy Cleaning	11:36		Light Rain	
Date Cleaned				End Time		Additional Info	
20181119				11:49			



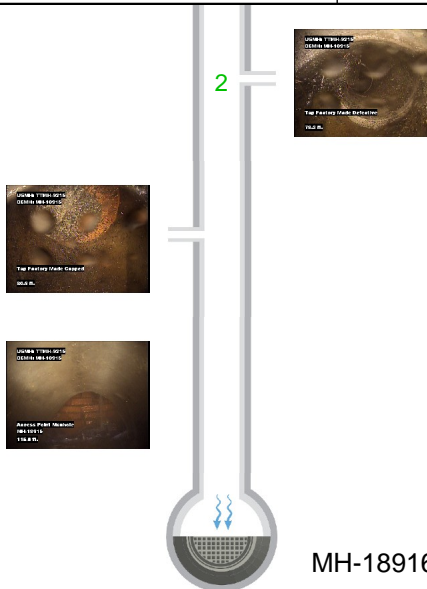
Defect Listing Plot with Images

Pipe Segment Refere...		City	Street	Material		Location C...	Sewer Use
TTMH-9216_MH-18916		Lynn- MA	Western Avenue	Vitrified Clay Pipe		Light High...	Combined
Upstream MH		Total Length	Year Laid	Shape		Location Details	
TTMH-9216		115		Circular			
DS Manhole		Length surveyed	Year Renewed	Height	Width	Pipe Joint...	
MH-18916		115		12	12		
SPR	N/A	MPR	6	PO Number		Customer	
SPRI	N/A	MPRI	3	Work Order		Stantec	
QSR	N/A	QMR	4121			Purpose	
						Maintenance Related	
OPR		Surveyed By	Direction	Date		Media label	
6		M_Davert	Downstream	20181119		11-19-18	
OPRI		Certificate Number	Pre-Cleaning	Time		Weather	
3		07003881	Heavy Cleaning	11:36		Light Rain	
Date Cleaned				End Time		Additional Info	
20181119				11:49			

79.3 ft. Tap Factory Made Defective

80.9 ft. Tap Factory Made Capped

115.0 ft. Access Point Manhole



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Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 11-23-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TTMH-9644	MH19291	TTMH-9644_MH19291	11/19/2018	Western Avenue	Vitrified Clay Pipe	12	163	163

Pipe Size: 12

Total Ln.: 163

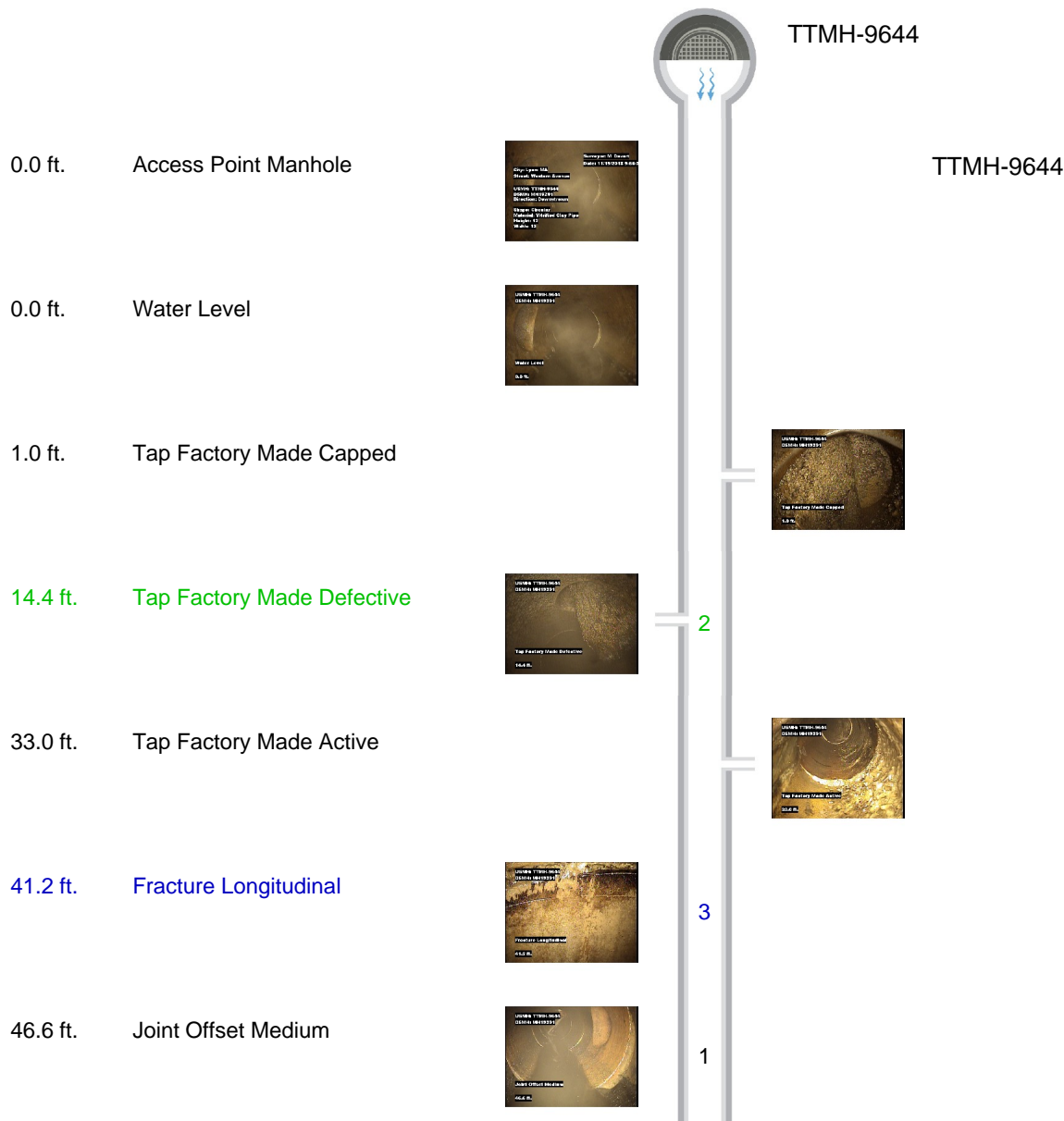
Inspected Ln.: 163

Project Total Ln.: 163.0

Project Inspected Ln.: 163.0

Defect Listing Plot with Images

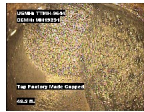
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TTMH-9644_MH19291	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TTMH-9644	163		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH19291	163		12	12	
SPR 4	MPR 11	PO Number		Customer	
SPRI 2	MPRI 2.2	Work Order		Stantec	
QSR 3111	QMR 3124			Purpose	
				Maintenance Related	
OPR 15	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181119	11-19-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:56	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			10:33		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TTMH-9644_MH19291	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TTMH-9644	163		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH19291	163		12	12	
SPR 4	MPR 11	PO Number		Customer	
SPRI 2	MPRI 2.2	Work Order		Stantec	
QSR 3111	QMR 3124			Purpose	
				Maintenance Related	
OPR 15	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181119	11-19-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:56	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			10:33		

49.2 ft. Tap Factory Made Capped



51.8 ft. Tap Break-In Intruding



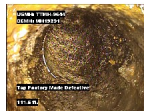
87.9 ft. Tap Factory Made Defective



95.9 ft. Tap Break-In Active



111.5 ft. Tap Factory Made Defective



140.5 ft. Tap Break-In Defective



146.2 ft. Tap Break-In Active



161.9 ft. Tap Factory Made Capped



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TTMH-9644_MH19291	Lynn- MA	Western Avenue	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TTMH-9644	163		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH19291	163		12	12	
SPR 4	MPR 11	PO Number		Customer	
SPRI 2	MPRI 2.2	Work Order		Stantec	
QSR 3111	QMR 3124			Purpose	
				Maintenance Related	
OPR 15	Surveyed By	Direction	Date	Media label	
	M_Davert	Downstream	20181119	11-19-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	07003881	Jetting	09:56	Light Rain	
Date Cleaned			End Time	Additional Info	
20181119			10:33		

163.0 ft. Access Point Manhole



MH19291



MH19291



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH18696	MH-18701	MH-18701_MH18696	10/11/2018	Witt Street	Vitrified Clay Pipe	8	124	124

Pipe Size: 8

Total Ln.: 124

Inspected Ln.: 124

Project Total Ln.: 124.0

Project Inspected Ln.: 124.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18701_MH18696	City Lynn- Ma	Street Witt Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH18696	Total Length 124	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18701	Length surveyed 124	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 5	MPR 42	PO Number		Customer Stantec	
SPRI 5	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5100	QMR 2C00				
OPR 47	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2.1	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 10:15	Weather Damp	
Date Cleaned 20181011			End Time 10:23	Additional Info	



Defect Listing Plot with Images

Pipe Segment Refere... MH-18701_MH18696	City Lynn- Ma	Street Witt Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH MH18696	Total Length 124	Year Laid	Shape Circular	Location Details	
DS Manhole MH-18701	Length surveyed 124	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 5	MPR 42	PO Number		Customer Stantec	
SPRI 5	MPRI 2	Work Order		Purpose Maintenance Related	
QSR 5100	QMR 2C00				
OPR 47	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2.1	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 10:15	Weather Damp	
Date Cleaned 20181011			End Time 10:23	Additional Info	

73.4 ft. Tap Factory Made Active



94.3 ft. Tap Factory Made Active



95.7 ft. Tap Factory Made Capped



110.9 ft. Deposits Attached Grease - F01

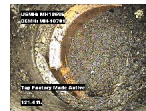


2

114.9 ft. Tap Factory Made Active



121.4 ft. Tap Factory Made Active



121.7 ft. Hole Void Visible



5

123.1 ft. Tap Factory Made Active



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
MH-18701_MH18696	Lynn- Ma	Witt Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH18696	124		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH-18701	124		8	8	
SPR 5	MPR 42	PO Number		Customer	
SPRI 5	MPRI 2			Stantec	
QSR 5100	QMR 2C00	Work Order		Purpose	
				Maintenance Related	
OPR 47	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181011	10-11-18	
OPRI 2.1	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	10:15	Damp	
Date Cleaned			End Time	Additional Info	
20181011			10:23		

124.0 ft. Access Point Manhole

MH18696



MH18696



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH18706	TT-MH0106	TT-MH0106_MH18701	10/11/2018	Witt Street	Vitrified Clay Pipe	8	130	130

Pipe Size: 8

Total Ln.: 130

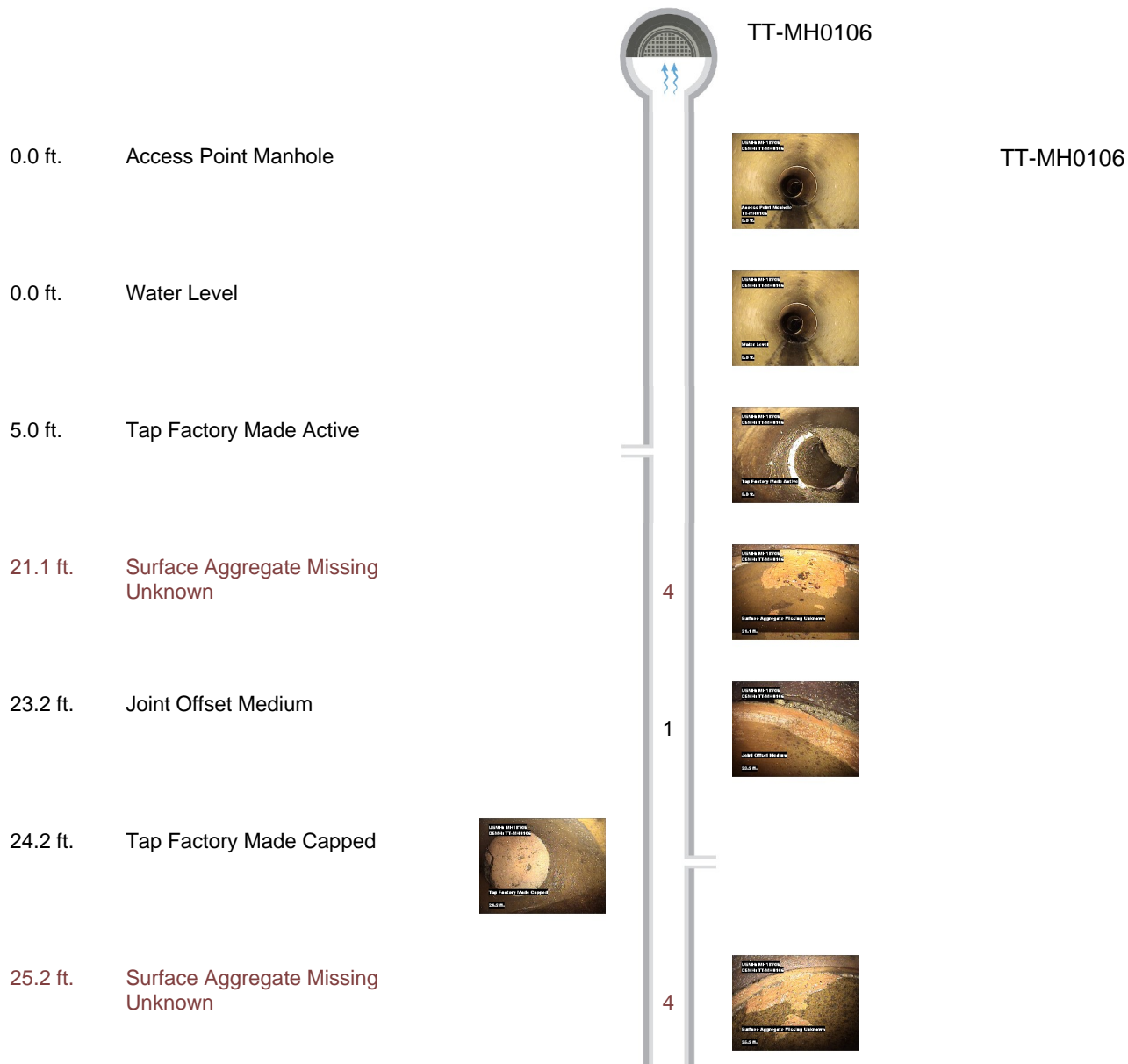
Inspected Ln.: 130

Project Total Ln.: 130.0

Project Inspected Ln.: 130.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH0106_MH18701	Lynn- Ma	Witt Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH18706	130		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TT-MH0106	130		8	8	
SPR 26	MPR N/A	PO Number		Customer	
SPRI 2.9	MPRI N/A			Stantec	
QSR 5243	QMR N/A	Work Order		Purpose	
				Maintenance Related	
OPR 26	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181011	10-11-18	
OPRI 2.9	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	09:53	Damp	
Date Cleaned			End Time	Additional Info	
20181011			10:06		



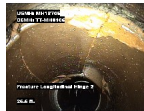
Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH0106_MH18701	Lynn- Ma	Witt Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
MH18706	130		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
TT-MH0106	130		8	8	
SPR 26	MPR N/A	PO Number		Customer	
SPRI 2.9	MPRI N/A			Stantec	
QSR 5243	QMR N/A	Work Order		Purpose	
				Maintenance Related	
OPR 26	Surveyed By	Direction	Date	Media label	
	Chris_M	Upstream	20181011	10-11-18	
OPRI 2.9	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	09:53	Damp	
Date Cleaned			End Time	Additional Info	
20181011			10:06		

26.3 ft. Tap Factory Made Capped



26.6 ft. Fracture Longitudinal Hinge 2



4

28.1 ft. Tap Factory Made Capped



28.3 ft. Broken Pipe Soil Visible



5

29.4 ft. Broken Pipe Void Visible



5

34.5 ft. Tap Factory Made Capped



35.5 ft. Crack Circumferential



1

39.3 ft. Joint Offset Medium



1

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH0106_MH18701	Lynn- Ma	Witt Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH MH18706	Total Length 130	Year Laid	Shape Circular	Location Details	
DS Manhole TT-MH0106	Length surveyed 130	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 26	MPR N/A	PO Number		Customer Stantec	
SPRI 2.9	MPRI N/A	Work Order		Purpose Maintenance Related	
QSR 5243	QMR N/A				
OPR 26	Surveyed By Chris_M	Direction Upstream	Date 20181011	Media label 10-11-18	
OPRI 2.9	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 09:53	Weather Damp	
Date Cleaned 20181011			End Time 10:06	Additional Info	

47.3 ft. Joint Offset Medium

1



61.7 ft. Tap Factory Made Active



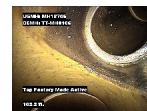
74.4 ft. Tap Factory Made Capped



84.4 ft. Tap Factory Made Capped



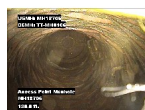
103.3 ft. Tap Factory Made Active



124.3 ft. Tap Factory Made Capped



130.0 ft. Access Point Manhole



MH18706

MH18706

MH 18701?



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
MH-18706	SGM-44411	MH-18706_SGM-44411 1	10/11/2018	Witt Street	Vitrified Clay Pipe	8	26	26

Pipe Size: 8

Total Ln.: 26

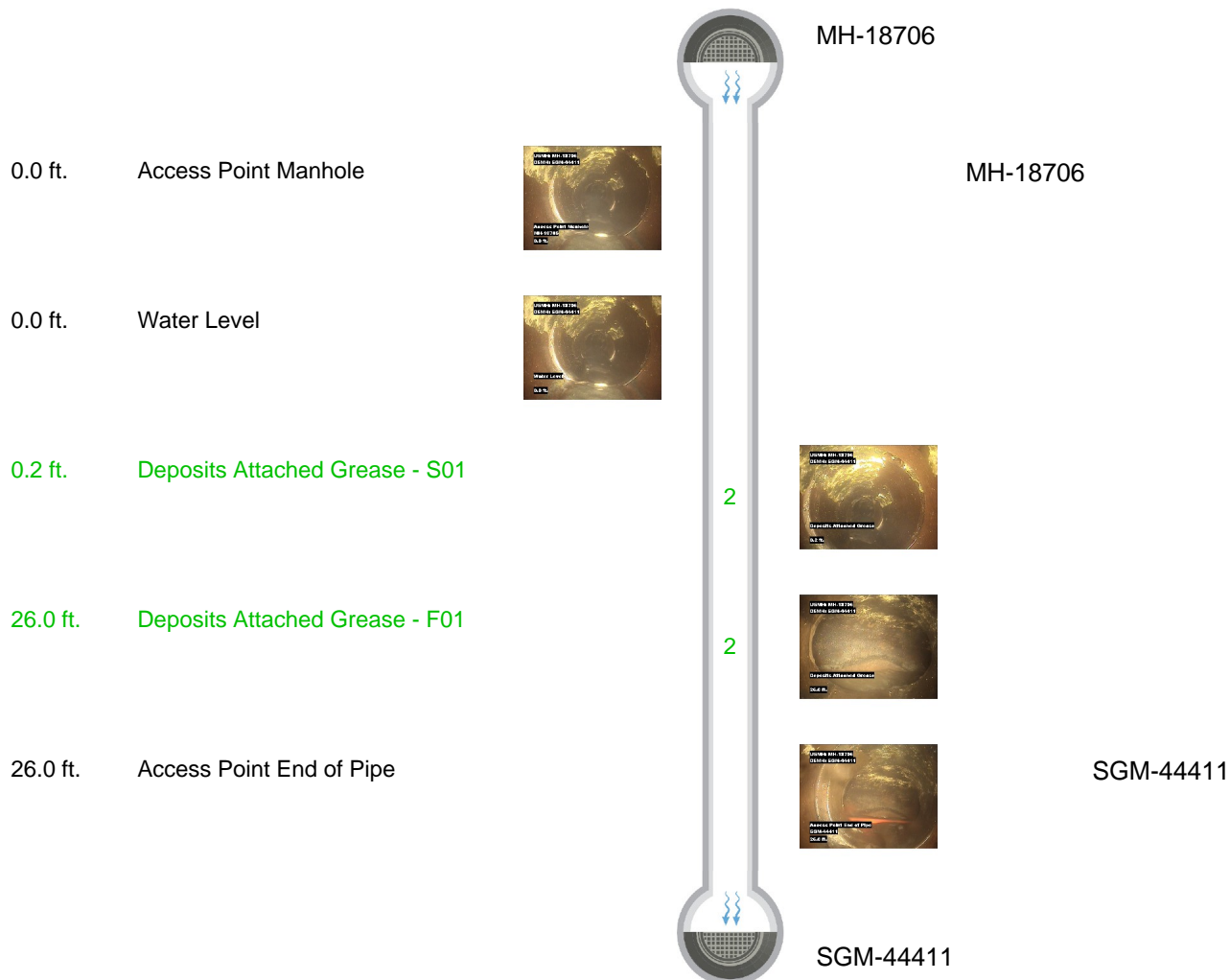
Inspected Ln.: 26

Project Total Ln.: 26.0

Project Inspected Ln.: 26.0

Defect Listing Plot with Images

Pipe Segment Refere... MH-18706_SGM-44411		City Lynn- Ma	Street Witt Street	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Combined
Upstream MH MH-18706		Total Length 26	Year Laid	Shape Circular		Location Details	
DS Manhole SGM-44411		Length surveyed 26	Year Renewed	Height 8	Width 8	Pipe Joint...	
SPR	N/A	MPR	10	PO Number		Customer Stantec	
SPRI	N/A	MPRI	2	Work Order		Purpose Maintenance Related	
QSR	N/A	QMR	2500				
OPR 10	Surveyed By Chris_M		Direction Downstream	Date 20181011		Media label 10-11-18	
OPRI 2	Certificate Number 10-08-7625		Pre-Cleaning Jetting	Time 11:43		Weather Damp	
Date Cleaned 20181011				End Time 11:48		Additional Info	





Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-265-3221

Project Summary

Project Name:		Lynn Water - Sewer Commission CCTV WE 10-12-18						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
TT-MH0106	MH18706	TT-MH0106_MH18706	10/11/2018	Witt Street	Vitrified Clay Pipe	8	215	215

Pipe Size: 8

Total Ln.: 215

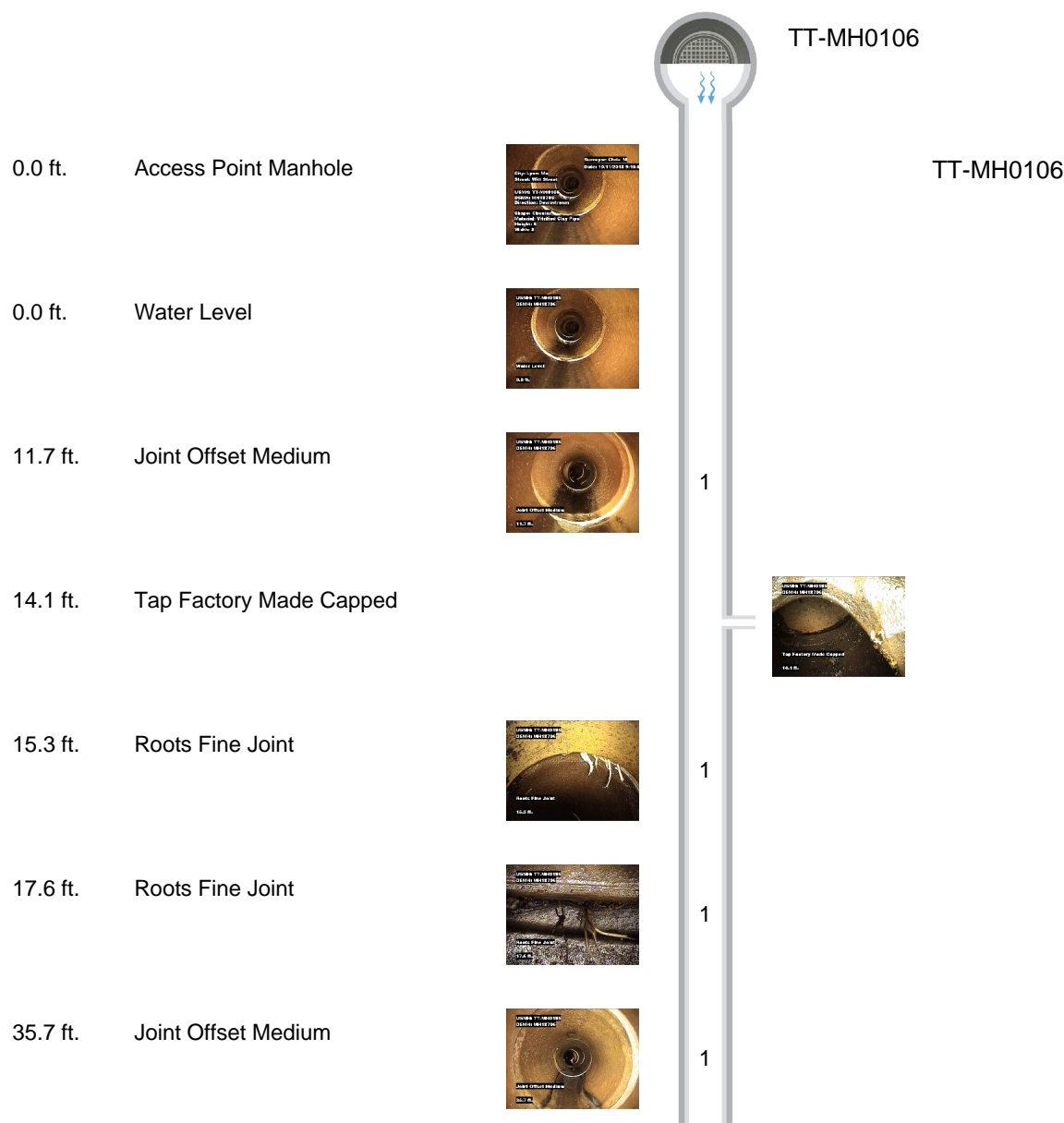
Inspected Ln.: 215

Project Total Ln.: 215.0

Project Inspected Ln.: 215.0

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH0106_MH18706	Lynn- Ma	Witt Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH0106	215		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH18706	215		8	8	
SPR 6	MPR 2	PO Number		Customer	
SPRI 1.2	MPRI 1			Stantec	
QSR 2114	QMR 1200	Work Order		Purpose	
				Maintenance Related	
OPR 8	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	09:30	Damp	
Date Cleaned			End Time	Additional Info	
20181011			09:46		



Defect Listing Plot with Images

Pipe Segment Refere... TT-MH0106_MH18706	City Lynn- Ma	Street Witt Street	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Combined
Upstream MH TT-MH0106	Total Length 215	Year Laid	Shape Circular	Location Details	
DS Manhole MH18706	Length surveyed 215	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 6	MPR 2	PO Number		Customer Stantec	
SPRI 1.2	MPRI 1	Work Order		Purpose Maintenance Related	
QSR 2114	QMR 1200				
OPR 8	Surveyed By Chris_M	Direction Downstream	Date 20181011	Media label 10-11-18	
OPRI 1.1	Certificate Number 10-08-7625	Pre-Cleaning Jetting	Time 09:30	Weather Damp	
Date Cleaned 20181011			End Time 09:46	Additional Info	

42.7 ft. Joint Offset Medium



1

43.6 ft. Tap Factory Made Active



43.8 ft. Joint Offset Large



2

54.0 ft. Tap Factory Made Active



64.4 ft. Tap Factory Made Active



100.5 ft. Tap Factory Made Capped



110.2 ft. Tap Factory Made Active



140.9 ft. Tap Factory Made Capped



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
TT-MH0106_MH18706	Lynn- Ma	Witt Street	Vitrified Clay Pipe	Light High...	Combined
Upstream MH	Total Length	Year Laid	Shape	Location Details	
TT-MH0106	215		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
MH18706	215		8	8	
SPR 6	MPR 2	PO Number		Customer	
SPRI 1.2	MPRI 1			Stantec	
QSR 2114	QMR 1200	Work Order		Purpose	
				Maintenance Related	
OPR 8	Surveyed By	Direction	Date	Media label	
	Chris_M	Downstream	20181011	10-11-18	
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	10-08-7625	Jetting	09:30	Damp	
Date Cleaned			End Time	Additional Info	
20181011			09:46		

168.3 ft. Tap Factory Made Active



177.6 ft. Joint Offset Medium



180.3 ft. Tap Factory Made Active



186.4 ft. Tap Factory Made Capped



188.5 ft. Tap Break-In Active



190.6 ft. Tap Factory Made Capped



215.0 ft. Access Point Manhole



MH18706



MH18706